

List of lessons for IV Semester B. A. and other Arts courses

Course Book

DRAMA

- 1. *Loyalties* by Galsworthy

POETRY

- 1. *Bonsai* by Biraja Bal
- 2. *Theme for English B* by Langston Hughes
- 3. *Pied Beauty* by G M Hopkins.
- 4. *I AM TERRIBLY SORRY* by Ogden Nash
- 5. *Elemental* by D H Lawrence.
- 6. *Preludes ** by T S Eliot (Poem for extended reading only)
- 7. Extract from Shakespeare's play: 'Sleep Walking Scene' from *Macbeth*.

List of lessons for IV Semester B Sc and other Science courses

Course Book

DRAMA

- Silence! The Court is in Session* by Vijay Tendulkar

POETRY

- 1. Brecht and Buddha by K Satchidanandan
- 2. Work by D H Lawrence.
- 3. Vultures by Chinua Achebe
- 4. Tongue by Imtiaz Dharker
- 5. Anything Can Happen by Abhay Narayan Naik
- 6. Ode to Autumn* by Keats (Poem for extended reading only)
- 7. From Shakespeare's play : Shylock's Defence (*The Merchant of Venice*, Act I, Sc 1 lines, 43-63)

Work Book

- 1. Narrative into dialogue based on a given situation.
- 2. Interview: how to face an interview, various types of interview; interview for jobs and appraisal; interviewing someone on a given topic/issue; asking questions.
- 3. Presentation skills: How to prepare notes and slides; importance of body language, demonstration/practice in classrooms in oral presentation; introducing someone based on one's bio-data.
- 4. Writing project report; bibliography, acknowledgements and references.

List of lessons for IV Semester B. Com and other Commerce courses

Course Book

DRAMA

Where There is a Will

by Mahesh Dattani

POETRY

- 1. Sonnet (no. 12) by Shakespeare
- 2. No More Hiroshimas by James Kirkup
- 3. Ethics by Linda Pasten
- 4. Australia by A D Hope
- 5. Two Tramps in Mud Time by Robert Frost
- 6. The Second Coming by W B Yeats
- 7. Fredrick Douglas* by Robert E Hayden (poem for extended reading only)

***Please note that the marked poems are for extended reading only.**

**ಬಿ.ಕಾಂ. (ಎಂ.ಟಿ.ಎ)
ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್**

ಪರಿವಿಡಿ

I. ಕಾವ್ಯಭಾಗ

೧. ಕುರುಕುಳಾಂತಕಂ ಗಳಿತಕೋಪನೇ [ಈ] ಭೀಮಂ ೧-೬
೨. ವಚನಗಳು - ದೇವರ ದಾಸಿಮಯ್ಯ, ಬಸವಣ್ಣ, ನೀಲಮ್ಮ,
ಮುಕ್ತಾಯಕ್ಕ ೭-೧೧
೩. ದೇವರು-ಪೂಜಾರಿ - ಕುವೆಂಪು ೧೨-೧೫
೪. ಗಂಗಾಮಯಿ - ಚಂದ್ರಶೇಖರ ಕಂಬಾರ ೧೬-೧೯

II . ಕಥಾ ಸಾಹಿತ್ಯ

೧. ಸೆರೆ - ಯಶವಂತ ಚಿತ್ತಾಲ ೨೦-೩೪
೨. ರೊಟ್ಟಿ - ಪಿ. ಲಂಕೇಶ್ ೩೫-೪೨
೩. ಜೀತ - ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ ೪೩-೫೩

III .ಜಾನಪದ

೧. ಕತೆ - ಧೀರಕುಮಾರ ೫೪-೫೯
೨. ಲಾವಣಿ - ವೀರರಾಣಿ ಚೆನ್ನಮ್ಮ ೬೦-೭೦
೩. ಲೇಖನ - ಪ್ರಾಚೀನ ಕಲೆ ತೊಗಲು ಗೊಂಬೆಯಾಟ
- ಡಾ. ಡಿ.ಕೆ. ರಾಜೇಂದ್ರ ೭೧-೮೧

IV . ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಕನ್ನಡ ಗ್ರಂಥೋದ್ಯಮ - ಶ್ರೀಮಾಧವ ಎನ್. ರಟ್ಟಿಹಳ್ಳಿ ೮೨-೯೩
೨. ಕನ್ನಡ ಅಂಕಣ ಸಾಹಿತ್ಯ - ಡಾ. ಸದಾನಂದ ಕನವಳ್ಳಿ ೯೪-೧೦೪
೩. ವ್ಯವಹಾರ ಮತ್ತು ನೈತಿಕತೆ - ಜಿ.ಎನ್. ಮಲ್ಲಿಕಾರ್ಜುನಪ್ಪ ೧೦೫-೧೧೦

I ಕಾವ್ಯ ಭಾಗ

೧. ಕುರುಕುಳಾಂತಕಂ ಗಳಿತಕೋಪನೇ [ಈ] ಭೀಮಂ

- ರನ್ನ

ಆಶಯ :

ಪರಮ ಜಿನೇಂದ್ರವಾಣಿಯ ಸರಸ್ವತಿ, ಬೇಟದ್ದು ಪೆಣ್ಣರೂಪಮಂ ಧರಿಯಿಸಿ ನಿಂದುದಲ್ಲದುವೆ ಭಾವಿಸಿಯೋದುವ ಕೇಳ್ಳ ಪೂಜಿಪಾ ದರಿಸುವ ಭವ್ಯ ಕೋಟಿಗೆ ನಿರಂತರ ಸೌಖ್ಯಮನೀವುದಾನದರ್ಕೆರೆದಪೆನಾ ಸರಸ್ವತಿ ಮಾಱಿ ಮಗಿಲ್ಲಿಯೆ ವಾಗ್ವಿಳಾಸಮಂ

- ಪಂಪ

ಜೈನಕವಿಗಳು ಕನ್ನಡ ಸಾಹಿತ್ಯದಲ್ಲೂ ಮೊದಲಿಗರು ಎಂಬ ಕಾರಣಕ್ಕಾಗಿ ಅವರಿಗೆ ಗೌರವ ಸಲ್ಲುವುದು ನ್ಯಾಯವಾದರೂ ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಾಗಿ ಅವರು ರೂಢಿಗೆ ತಂದ ಮೌಲ್ಯಗಳಿಂದಾಗಿ, ಸಮಾಜದಲ್ಲಿ ಆ ಮೌಲ್ಯಗಳು (ಅವು ಅದರ್ಥ ಕೃತವೇ ಆದರೂ) ಬದುಕಿ ಉಳಿಯಲು ಹೇಣಗಾಡಿದವರು ಎಂಬ ಕಾರಣಕ್ಕಾಗಿ ಅವರಿಗೆ ಮನ್ನಣೆ ಸಿಕ್ಕುವುದು ನ್ಯಾಯವಾಗಿದೆ.

"ಯಾವ ಭಾವನೆ ಅಥವಾ ಆದರ್ಶಗಳು ಒಟ್ಟು ಜನಜೀವನವನ್ನು ಹಿಡಿದು ನಡೆಯಿಸುತ್ತವೆಯೋ, ಯಾವುದನ್ನು ಪಡೆಯಲು ಅಥವಾ ಆಗಲು ಒಂದು ಕಾಲದ ಒಂದು ಜನಾಂಗ ಹಂಬಲಿಸುತ್ತದೆಯೋ, ಯಾವ ಭಾವನೆ ಅಥವಾ ಆದರ್ಶಗಳಿಗೆ ಉಳಿದ ಭಾವನೆ ಅಥವಾ ಆದರ್ಶಗಳಿಗಿಂತ ಹೆಚ್ಚು ಪ್ರಾಮುಖ್ಯವುಂಟೋ ಅವುಗಳನ್ನು ಮೌಲ್ಯಗಳೆಂದು ಕರೆಯಬಹುದು. ಈ ಮೌಲ್ಯಗಳು ಕಾಲದಿಂದ ಕಾಲಕ್ಕೆ ದೇಶದಿಂದ ದೇಶಕ್ಕೆ ಭಿನ್ನವಾಗಬಹುದು. ಒಂದು ಸಂಸ್ಕೃತಿಯ ದೊಡ್ಡತನವನ್ನು ಅದು ಭಿನ್ನವಾಗಬಹುದು. ಒಂದು ಸಂಸ್ಕೃತಿಯ ದೊಡ್ಡತನವನ್ನು ಅದು ಜನಮನದಲ್ಲಿ ನಿಲ್ಲಿಸುವ ಮೌಲ್ಯಗಳಿಂದ ಅಳೆಯಬಹುದು."

- ಡಾ. ಎಂ. ಚಿದಾನಂದ ಮೂರ್ತಿ

ಕುರುಭೂಭೃದ್ಬಲ [ತೂಲಕಾ]೧ ಲಪವನಂ ಕೌರವ್ಯಗಂಧೇಭಕೇ-
ಸರಿ ದುಶ್ಯಾಸನರಕ್ತರಕ್ತವದನಂ, ದುರ್ಯೋಧನೋರುಕ್ಷಮಾ-
ಧರವಜ್ರಂ ಕುರುರಾಜರತ್ನ ಮಕುಟೋತ್ಕೃಷಾಂಘ್ರಿ ಸಂಘಟ್ಟ ಸಂ-
ಗರನೆಂದೆಂದಭಿವರ್ಣಿಪೆಂ ರಣಯಶಃ ಶ್ರೀರಾಮನಂ ಭೀಮನಂ॥

ಆ ಪ್ರಸ್ತಾವದೊಳ್ ದೃಷ್ಟಾದೃಷ್ಟಪರಂಪರೆಯೆಂಬ ವೃದ್ಧಕಂಚು ಕಿಯುಂ ಬುದ್ಧಿಮತಿಯೆಂಬ ಮೇಳದ ಕೆಳದಿಯುಂ ಬೆರಸು ದೇವಾಸುರ ಯುದ್ಧಕ್ಕೆಕರಗಂಬೊತ್ತಳೆಂಬಂತೆಅನವರತವಾರಿಧಾರಾಪೂರಪರಿವಾರ (ಹಿ) ತಪಲ್ಲವನೇತ್ರೆಯುಂ ಅಸಹ್ಯಪರಭವಾನಲದಂದಹ್ಯಮಾನಗಾತ್ರೆಯುಂ ಆಗಿ ಯಜ್ಞವೇದೀಸಂಭವೆಯುಂ [ರೂಜ್ಞ ಸೇನಿಯುಂ] ದ್ರುಪದರಾಜೋಪವನ ಜಯವೈಜಯಂತಿಯಂ ಎನಿಸಿದ ಪಾಂಚಾಲರಾಜತನೂಜೆ ಪವಮಾನ ತನೂಜನಲ್ಲಿಗೆ ವಂದು

ಖಳದುಶ್ಯಾನವಕ್ಷಃ-

ಸ್ಥಳೋಚ್ಚಲತ್ಕೃಷ್ಣರಕ್ತಜಲದಿಂ ಕೋಪಾ-
ನಳನಂ ಮ(ಱ್ಗಿಸಿ ನೀನುಂ)

ಗ(ಳಾ) ಗಳಿತಕೋಪನಿರ್ಪ ತೆಱದಿಂದಿದರ್ಯ್ ॥

ವಿನಯಮನೆ ಬಗೆದು ವಿಕ್ರಮ-

ಮನೆ ಬಗೆ (ರಿವೆ)ನರನುಮಾನುಮೆನಗಂ ಸಂಮೋ-
ಹನಮಾದುದಕ್ಕುಮಂದ-

ಣ್ಣನ ಸೂನೃತವಚನಮೆಂಬ ಮಂತ್ರಾಕ್ಷರದಿಂ ॥

ಗಳಿಯುಸುತೆರೆ ಕಬರಿಭರಂ

ಗಳಿಯುಸುತಿರೆ ನಯನವಾರಿ ನಿನ್ನಾನನದಿಂ

ನಳಿನಾನನೆ ನೀನಿರೆ ಕುರು

ಕುಳಾಂತಕಂ ಗಳಿತಕೋಪನೇ [ಈ] ಭೀಮಂ ॥

ಸತ್ಯಪ್ರತಿಜ್ಞನೆನೆ ಕುರು-

ಪತ್ನೂರುಕಿರೀಟಭಂಗಮಂ ಪಡೆದು ಜಗತ್-

ಸ್ತುತ್ಯಕೃತಕೃತ್ಯನೆನಿಸದೆ

ಸತ್ಯಾಶ್ರಯವೆಸರ್ಗಿ ಮುಯ್ಯನಾಂಪನೆ ಭೀಮಂ ॥

ನೀನಗ್ನಿ ಪುತ್ರಿಯಯ್ ಪರ್ವ
ಮಾನತನೂಭವನೆನಾನಣಂ ಕೂ[ಡಿರೆ ಸಂ]-
ಧಾನಮರಿನ್ಯಪರೊಳೆಂತನ-
ಲಾನಿಲಸಂಯೋಗಮುರಿಪದಿರ್ಕುಮೆ ಪಗೆಯಂ ||

ಕುರುಕುಲಜೀವಾಕರ್ಷಣ-
ಪರಿಣತಮಿದು ಕಾಳಹಸ್ತಮಲ್ಲದೆ ಪರಮೇ-
ಶ್ವರಿ ಕೇಶಹಸ್ತಮಕ್ಕುಮೆ
ಪರಾಭವಜ್ವಲನಧೂಮಕೃಷ್ಣಂ ಕೃಷ್ಣೇ ||

ಕುರುನಂದನರಂ ಕೊಂದೆಂ
ಕುರುಶಾಬಾನುಜನ ನೆತ್ತರಂ ಕುಡಿದೆಂ ಪೂ-
ಣ್ಣೆರಡಂ ತೀರ್ಚಿದೆನಿದರ್ಪು-
ವೆರಡುಮವಂ ತೀರ್ಚಿ ತೀರ್ಚದಿರ್ಪನೆ ಪಗೆಯಂ ||

ಊರುಗಳನುಡಿವೆನೊದೆವೆಂ
ಕೌರವಪರಿವೃಥನ ಮಕುಟಮಂ ವೇಣೀಸಂ
ಹಾರಂ ಮಾಡುವೆನದಳೆಂ
ಭಾರಮದಿನೆತ್ತಲ್ಲದೆನ್ನ ಪರಿಭವಭಾವಂ ||

ಕುರುಕುಲಶೋಣಿತಪಾದಪದ್ಮತಳಂ ತಳೋ-
ದರಿಗೆ ವೃಕೋದರನಾಗಿಪಂ ಕಚಬಂಧ ಬಂ-
ಧುರತೆಯನಾತನ ಪೂಣ್ಣ ಪೂಣ್ಣೆ ಶಿಳಾತಳಾ
ಕ್ಷರಮೆನಿಸಿರ್ಪ ಜನೋಕ್ತಿಯಂ ಪುಸಿಮಾಟ್ಟನೇ ||

ಅಜನ ಮಗಂ ಪ್ರಾರ್ಥಿಸೆ ಬಾಂ-
ದೊಳೆಯ ಮಗಂ ಮಾಡೆ ಸಂಧಿಯಾದಪುದೆನುತುಂ
ಮಱುಗುವೆ [ಅಣ್ಣ]ನ ಮಾತಂ
ಪೆಳಗಿಕ್ಕುವೆನಜ್ಜನಿದುರ್ಮ ಮಾಣ್ಣೊಡಮೀಯೆಂ ||

ಎಂದು ಕೌರವ್ಯಕುಲಕಾಲಾನಲನುಂ ಕುರುರಾಜನಿರ್ವ್ಯಾಜನಿಬಿಡೋರು
ಧ್ವಯಭಂಗ ಪ್ರತಿಜ್ಞಾಭಾರಮಂ ಫಣಿಪತಿಕೇತನಧೂಮಕೇತುವುಂ ಪಾಂಡವಂ
ಬಲಪ್ರಾಕಾರನುಂ ಏಕಾಂಗವೀರನುಂ ಜರಾಸಂಧಸಂಧಿಬಂಧವಿಘ್ನಟನನುಂ
ಇಳಿವ ಬೆಡಂಗನುಂ ಅಕಲಂಕಚರಿತನುಂ ಅಮ್ಮನ ಗಂಧವಾರಣನುಂ
ಸಾಹಸಾಂಕನುಂ ಎನಿಸಿದ ಭೀಮಸೇನನಂತು ಆರೂಢಕೋಪನುಂ ಪ್ರತಿಜ್ಞಾ
ರೂಢನುಂ ಆ [೧]

ಸಮದೇಭಕುಂಭಭೇದ ನ-
ಸಮಯೋಗ್ರನಖಂಗೆ ಹರಿಗೆ ಮೃಗರಿಪುವೆಸರು-
ತ್ತಮಿಕೆಯೆ ನಿನಗೆ ಜರಾಸಂ-
ಧಮಥನ ಕುರುವೈರಿವೆಸರದೇನುನ್ನತಿಯೇ ||

ಇಳಿವ ಬೆಡಂಗ ದೇವ ಪರಮೇಶ್ವರ ಸಾಹಸಭೀಮ ನಿನ್ನೊಳಾ-
ರಿಳಿದು ಬದುಕುವರ್ ನಿಜಭುಜೋಗ್ರಗದಾಪರಿಘಪ್ರಹಾರದಿಂ
ಪಳಿವೆಳಿಯಾಗಿ ಪು[ಣ್ಣ]ವೆಣನಾಗಿ ಮರುಳ್ಳುಣಿಸಾಗಿ ಯುದ್ಧದೊಳ್
ಕುಳಿದಳಿಯಾಗಿ ಬಿಟ್ಟರಿಬಲಂಗಳೆ ಪೇಟವೆ ನಿನ್ನ ಬೀರಮಂ ||

ಎಂದು ಅನಲನಂದನೆ ಅನಿಲನಂದನನಂ ಪೊಗಟ್ಟು

ಒಡಲೊಡಮೆಯೆಂಬಿವೆರಡುಂ
ಕೆಡಲಿರ್ಪುವು ಕೆಡದ ಕಸವರಂ ಜಸಮದಳಿಂ
ಕೆಡುವೊಡಲೊಡಮೆಯನೆಂದುಂ
ಕೆಡವೊಡಮೆಗೆ ಮಾಱುಗುಡುವುದಿತಿವ ಬೆಡಂಗಾ ||

ಮಣಿ ಕನಕಂ ವಸ್ತು ವಿಭೂ-
ಷಣಂಗಳಂ ಕೊಟ್ಟು ಪೆಂಡಿರೊಲ್ಲರೆ ಗಂಡರ್
ಗುಣಮನೆ ಮೆಳಿವುದು ಶಸ್ತ್ರ-
ವ್ರಣಮಂ ನಿನ್ನಂತೆ ಮೆಳಿವುದಿತಿವ ಬೆಡಂಗಾ ||

ಎಂದು ಮೂದಲಿಸಿ ನುಡಿಯೆ

ಕವಿ ಪರಿಚಯ

ರನ್ನ : ೧೦ನೇ ಶತಮಾನದ ಕೊನೆಯಲ್ಲಿದ್ದ ರನ್ನ ರತ್ನತ್ರಯದಲ್ಲಿ ಒಬ್ಬ. ಜೈನ ಮತೀಯನಾದ ಈತನ ಊರು ಮುದುವೊಳಲು. ಪಂಪನ ಕಾವ್ಯ ಮಾರ್ಗದಲ್ಲೇ ಮುಂದುವರಿದ ಈತ, 'ಅಜಿತನಾಥ ಪುರಾಣ'ವೆಂಬ ಆಗಮಿಕ ಕಾವ್ಯವನ್ನೂ 'ಸಾಹಸಭೀಮ ವಿಜಯ' ಅಥವಾ 'ಗದಾಯುದ್ಧ'ವೆಂಬ ಲೌಕಿಕ ಕಾವ್ಯವನ್ನು ರಚಿಸಿ ಕವಿಚಕ್ರವರ್ತಿ ಎಂಬ ಬಿರುದನ್ನು ಪಡೆದಿದ್ದಾನೆ. ತನ್ನ ಆಶ್ರಯದಾತ ಸತ್ಯಾಶ್ರಯ ಅಥವಾ ಇಳಿವೆಬೆಡಂಗನನ್ನು ಮಾಹಾಭಾರತದ ಭೀಮನೊಂದಿಗೆ ಹೋಲಿಸಿ ಗದಾಯುದ್ಧವನ್ನು ರಚಿಸಿದ್ದಾನೆ. ಅಜಿತಸೇನಾಚಾರ್ಯರನ್ನು ಗುರುವನ್ನಾಗಿ ಪಡೆದ ಈತನಿಗೆ ಚಾವುಂಡರಾಯ ಹಾಗೂ ಅತ್ತಿಮಚ್ಚಿಯರೂ ಆಶ್ರಯದಾತರಾಗಿದ್ದರು.

ಚಂಪೂ ಕೃತಿಯಾದ 'ಸಾಹಸ ಭೀಮ ವಿಜಯಂ' ಅಥವಾ 'ಗದಾಯುದ್ಧ' ರನ್ನ ಕವಿಯ ಕೃತಿ ರತ್ನ. ಈ ಕೃತಿಗೆ ಪ್ರಭಾವ, ಪ್ರೇರಣೆ ಪಂಪಭಾರತದ ೧೩, ೧೪ನೇ ಅಧ್ಯಾಯಗಳಲ್ಲಿದೆ. ಅವನು ಸಿಂಹಾವಲೋಕನ ಕ್ರಮದಲ್ಲಿ ಸಮಸ್ತ ಭಾರತದ ಘಟನೆಗಳನ್ನು ನೆನಪಿಗೆ ಕೊಟ್ಟು ಕೃತಿಯನ್ನು ರಚಿಸಿದ್ದಾನೆ. ನಾಟಕೀಯತೆ, ವಿಶೇಷಣಗಳ ಬಳಕೆ ರನ್ನನ ಕೃತಿಯ ಪ್ರಧಾನ ಗುಣಗಳು, ಕವಿ ರನ್ನನು ಭಾಸನ ಊರು ಭಂಗ, ಭಟ್ಟಿನಾರಾಯಣನ ವೇಣೀಸಂಹಾರ ಮೊದಲಾದವುಗಳಿಂದಲೂ ಪ್ರಭಾವಿತನಾಗಿದ್ದಾನೆ.

ಪ್ರಸ್ತುತ ಕಾವ್ಯ ಭಾಗದಲ್ಲಿ ದ್ರೌಪದಿ ಶತ್ರು ದುರ್ಯೋಧನನ್ನು ನಾಶಗೈಯಲು ಭೀಮನನ್ನು ಪ್ರೇರೇಪಿಸಿದ ರೀತಿ ಹಾಗೂ ಭೀಮನು ಉದ್ದೀಪಿತನಾಗಿ 'ದುರ್ಯೋಧನನ್ನು ಕೊಂದು ನಿನ್ನ ಮುಡಿಯನ್ನು ಕಟ್ಟಿ, ಕಣ್ಣೀರನ್ನು ತೊಡೆದಲ್ಲದೆ ನನ್ನ ಕೋಪ ಶಮನವಾಗುವುದಿಲ್ಲ' ಎಂಬುದಾಗಿ ಪ್ರತಿಜ್ಞೆ ಮಾಡುತ್ತಾನೆ. ದ್ರೌಪದಿಗೆ ಈ ಪ್ರತಿಜ್ಞೆ ಸಂತಸ ಹಾಗೂ ಸಮಾಧಾನವನ್ನು ತರುತ್ತದೆ.

'ಪ್ರಸ್ತುತ ಭಾಗಕ್ಕೆ ತೀ.ನಂ.ಶ್ರೀಯವರ ಟಿಪ್ಪಣಿಗಳನ್ನು ಬಳಸಿಕೊಳ್ಳಲಾಗಿದೆ.'

ಕಥಾ ಪದಗಳ ಅರ್ಥ :

ಕುರುಭೂಭೃತ್-ಕುರುರಾಜನ; ಕಾಲ ಪವನಂ-ಪ್ರಳಯಕಾಲದ ವಾಯುವಿನಂತೆ ಇರುವವನು ಅಂದರೆ ತೂರಿ ಬಿಡತಕ್ಕವನು; ಊರು-ತೊಡೆ; ಕರಗ-ಗಡಿಗೆ, ನೀರಿನ ಗಡಿಗೆ; ಪರಿಭವಾನಲ-ಅಪಮಾನಾಗ್ನಿಯಿಂದ; ಗಾತ್ರೆಯುಂ-ಶರೀರವುಳ್ಳವಳೂ; ಉಚ್ಚಲತ್-ಮೇಲಕ್ಕೆ ಹಾಯುತ್ತಿರುವ; ಗಳಿತಕೋಪಂ-ಕೋಪ ಇಳಿದುಹೋದವನು; ಸೂನ್ಯತ ವಚನ-ಪ್ರಿಯವೂ ಸತ್ಯವೂ ಆದ ಮಾತು; ಗಳಿಯಿಸು-ಗಲಿತವಾಗು; ಮುಯ್-ಪ್ರತಿಫಲ-ಪ್ರಯೋಜನ; ಆಂಪನೆ-ತಳೆಯುತ್ತಾನೆಯೇ; ಅನಲಾನಿಲಸಂಯೋಗಂ-ಬೆಂಕಿಗಾಳಿಗಳ ಸಂಯೋಗ; ಕಾಳಹಸ್ತ-ಯಮನಕ್ಕೆ;

ಕೇಶಹಸ್ತ-ಕೇಶಮೂಹ; ಶಾಬ-ಮರಿ; ಪೂಣ್ಡ-ಪ್ರತಿಜ್ಞೆ ಮಾಡಿದ; ಉಡಿ-ಮುರಿ; ವೇಣೀಸಂಹಾರ-(ದ್ರೌಪದಿಯ) ಜಡೆಯನ್ನು ಒಟ್ಟುಗೂಡಿಸಿ ಕಟ್ಟುವುದು; ಪೂಣ್ಣೆ-ಪ್ರತಿಜ್ಞೆ; ಶಿಖಾತಳಾಕ್ಷರಂ-ಕಲ್ಲ ಮೇಲೆ ಕೊರೆದ ಅಕ್ಷರ; ಅಹನ ಮಗಂ-ಯಮಧರ್ಮನ ಮಗ; ಅಱ-ಧರ್ಮ; ಗಂಧವಾರಣ-ತಂದೆಯ ಮದದಾನೆ; ಇಭ-ಆನೆ; ಹರಿ-ಸಿಂಹ; ಗದಾಪರಿಘ-ಲಾಳಮುಂಡಿಗೆಯಂತಿರುವ ಗದೆ; ಕಸವರ-ಹೊನ್ನು; ಶಸ್ತ್ರವ್ರಣ-(ಶತ್ರುಗಳ) ಆಯುಧಗಳಿಂದ ಆದ ಗಾಯ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಭೀಮನ ಪಶ್ಚಾತ್ತಾಪದ ಮಾತುಗಳು ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ?
೨. ರನ್ನನು ಚಿತ್ರಿಸಿದ ಭೀಮಸೇನನ ವ್ಯಕ್ತಿತ್ವವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
೩. ಭೀಮಸೇನ ಅಥವಾ ದ್ರೌಪದಿಯ ಪಾತ್ರ ಪರಿಚಯ ಮಾಡಿಕೊಡಿ.
೪. ಭೀಮ ಸೇನನ ಪ್ರತಿಜ್ಞೆ ಯಾವುದು? ಅದು ವ್ಯಕ್ತವಾದ ಸಂದರ್ಭದ ಸ್ವಾರಸ್ಯವನ್ನು ಚಿತ್ರಿಸಿ.
೫. "ನಾಟಕೀಯ ಸನ್ನಿವೇಶಗಳ ಸೃಷ್ಟಿ ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಶಕ್ತಿಯುತವಾಗಿವೆ" ಈ ಹೇಳಿಕೆಯನ್ನು ಸಮರ್ಥಿಸಿ.
೬. ದ್ರೌಪದಿ ಶತ್ರು ದುರ್ಯೋಧನನನ್ನು ನಾಶಗೈಯಲು ಭೀಮನನ್ನು ಉದ್ದೀಪಿಸಿದ ರೀತಿಯನ್ನು ವರ್ಣಿಸಿ.
೭. ದ್ರೌಪದಿಯ ಮಾತುಗಳಿಂದ ಉದ್ದೀಪಿತನಾದ ಭೀಮನ ಮನೋಭಾವವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
೮. "ಕಣ್ಣೀರನ್ನು ತೊಡೆದಲ್ಲದೆ ನನ್ನ ಕೋಪ ಶಮನವಾಗುವುದಿಲ್ಲ" ಎಂದು ಭೀಮನು ಹೇಳಲು ಕಾರಣವಾದ ಘಟನೆಯ ಸ್ವಾರಸ್ಯವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.

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೨. ವಚನಗಳು

- ವಚನಕಾರರು

ಆಶಯ :

ಕರ್ನಾಟಕ ಇತಿಹಾಸದಲ್ಲಿ ಶಿವಶರಣರ ಚಳುವಳಿ ಒಂದು ಅಪೂರ್ವ ಘಟನೆ. ವಚನಗಳ ಸೃಷ್ಟಿ ಒಂದು ಅನನ್ಯ ಪ್ರಯೋಗ, ಸಮಾಜದ ಎಲ್ಲ ವರ್ಗ, ಎಲ್ಲ ವರ್ಣಗಳ ಜನಸಮುದಾಯ ಬಸವಣ್ಣನವರ ನೇತೃತ್ವದಲ್ಲಿ ಕೈಗೊಂಡಿದ್ದ ವ್ಯಕ್ತಿ ಕಲ್ಯಾಣ ಮತ್ತು ಸಮಾಜ ಕಲ್ಯಾಣ ಚಳುವಳಿಯ ಸೃಷ್ಟಿಯೆನಿಸಿದ ಈ ವಚನಗಳು, ಜಾಗತಿಕ ಸಾಹಿತ್ಯದ ಮಹತ್ವಪೂರ್ಣ ಭಾಗವೆನಿಸಿವೆ.

"ವಚನ" ಶಬ್ದಕ್ಕೆ ಇಲ್ಲಿ ಗದ್ಯ ಸಾಹಿತ್ಯ ಪ್ರಕಾರವೆಂದು ಅರ್ಥವಲ್ಲ ಪ್ರತಿಜ್ಞೆ, ಆತ್ಮಸಾಕ್ಷಿಯ ಮಾತು ಎಂದು ಅರ್ಥ. ನಡೆ ಹೇಗೆ ಇರಲಿ. ನುಡಿ ಮಾತ್ರ ಕಲಾತ್ಮಕವಾಗಿದ್ದು, "ರಚನೆ"ಯಾದರೆ, ನಡೆದಂತೆ ನುಡಿದ ಆತ್ಮಸಾಕ್ಷಿಯ ವಾಣಿ "ವಚನ" ವೆನಿಸುತ್ತದೆ.

ವಚನಗಳು ಆಚಾರ್ಯರ ಸಾಹಿತ್ಯವಲ್ಲ. ಅನುಭಾವಿಗಳ ಸಾಹಿತ್ಯ ಆಚಾರ್ಯರು ಜೀವಿಸಿರುವಾಗಲೇ ತಮ್ಮ ವಿಚಾರಗಳನ್ನು ಬರೆದು, ಅವುಗಳಿಗೆ ಸಂವಿಧಾನಾತ್ಮಕ ಮುದ್ರೆ ಒತ್ತುತ್ತಾರೆ. ಅನುಭಾವಿಗಳು ಮಾತ್ರ ತಮ್ಮ ಚಿಂತನೆಯನ್ನು ಹೃದಯದಿಂದ ಹೃದಯಕ್ಕೆ ಮುಟ್ಟುವಂತೆ ಬಿಡಿ ಮಾತುಗಳ ಮೂಲಕ ಹೇಳುತ್ತಾರೆ. ಬಿಡಿಮುತ್ತುಗಳಂತೆ ನೋರೆಯಾದ ಅವುಗಳನ್ನು ಸಂಗ್ರಹಿಸುವ, ಸಂಕಲಿಸುವ ಸಂಪಾದಿಸುವ ಕೆಲಸವನ್ನು ಉತ್ತರಕಾಲೀನ ಅನುಯಾಯಿಗಳು ಮಾಡುತ್ತಾರೆ. ಏಸುವಿನ ವಾಣಿಯಾದ ಬೈಬಲ್, ಮಹಮ್ಮದನ ಉಪದೇಶವಾದ ಕುರಾನ್, ಬುದ್ಧನ ಬೋಧನೆಯಾದ ತ್ರಿಪಿಟಕ, ಶರಣರ ಸಂದೇಶವಾದ ವಚನಕೃತಿಗಳು ಈ ಬಗೆಯ ಉತ್ತರಕಾಲೀನ ಸಂಕಲನಗಳಾಗಿವೆ.

- ಡಾ. ಎಂ.ಎಂ. ಕಲಬುರ್ಗಿ

ಚೇಡರ ದಾಸಿಮಯ್ಯ

ಕಡೆಗೇಲಿಲ್ಲದ ಬಂಡಿ ಹೊಡೆಗೆಡೆಯದೆ ಮಾಣ್ಣುದೆ?
ಕಡೆಗೇಲು ಬಂಡಿಗಾಧಾರ
ಕಡುದರ್ಪವೇರಿದ ಒಡಲೆಂಬ ಬಂಡಿಗೆ
ಮೃಡಭಕ್ತರ ನುಡಿಗಡಣವೇ ಕಡೆಗೇಲು ಕಾಣಾ ರಾಮನಾಥ

ಒಡಲುಗೊಂಡವ ಹಸಿವ
ಒಡಲುಗೊಂಡವ ಹುಸಿವ
ಒಡಲುಗೊಂಡವನೆಂದು ನಿನ್ನೆನ್ನ ಜಡಿದೊಮ್ಮೆ ನುಡಿಯದಿರಾ
ನೀನೆನ್ನಂತೊಮ್ಮೆ ಒಡಲುಗೊಂಡು ನೋಡಾ ರಾಮನಾಥ

ಬಸವಣ್ಣ

ಉಳ್ಳವರು ಶಿವಾಲಯ ಮಾಡುವರು
ನಾನೇನ ಮಾಡುವೆ ಬಡವನಯ್ಯಾ
ಎನ್ನ ಕಾಲೇ ಕಂಭ ದೇಹವೇ ದೇಗುಲ
ಶಿರವೇ ಹೊನ್ನ ಕಳಶವಯ್ಯಾ
ಕೂಡಲಸಂಗಮ ದೇವಾ ಕೇಳಯ್ಯ
ಸ್ಥಾವರಕೃಳಿವುಂಟು ಜಂಗಮಕೃಳಿವಿಲ್ಲ

ಮರ್ತ್ಯಲೋಕವೆಂಬುದು ಕರ್ತಾರನ ಕಮ್ಮಟವಯ್ಯಾ
ಇಲ್ಲಿ ಸಲ್ಲುವರು ಅಲ್ಲಿಯೂ ಸಲ್ಲುವರಯ್ಯಾ
ಇಲ್ಲಿ ಸಲ್ಲದವರು ಅಲ್ಲಿಯೂ ಸಲ್ಲರಯ್ಯಾ
ಕೂಡಲಸಂಗಮ ದೇವಾ

ನೀಲಮ್ಮ

ನನ್ನನಾರೂವರಿಯರು,
ನಾನು ಸ್ವರ್ಗಿಯಲ್ಲ ಅಪವರ್ಗಿಯಲ್ಲ;
ನನ್ನನಾರೂವರಿಯರು,

ನಾನು ಮುಕ್ತಳಲ್ಲ ಅಮುಕ್ತಳಲ್ಲ
ನನ್ನನಾರೂ ಅರಿಯರು,
ಸಂಗಯ್ಯನವಲ್ಲ ರೂಪಿಲ್ಲದ ಹೆಣ್ಣಾದ ಕಾರಣ ನನ್ನನಾರೂ ಅರಿಯರು ||

ನಾಡನಾಳಹೋದರೆ
ಆ ನಾಡು ಅಳುವ ಒಡೆಯಂಗೆ ನಾಡೆ ಹಗೆಯಾಯಿತ್ತು
ಹಗೆಯಳಿದು ನಿಸ್ಸಂಗವಾಯಿತ್ತು.
ನಿಸ್ಸಂಗ ವೇದ್ಯವಾಗಿ
ಸಂಗಯ್ಯನಲ್ಲಿ ಮುಕ್ತಳಾದೆನು ನಾನು.

ಮುಕ್ತಾಯಕ್ಕೆ

ನುಡಿಯಲು ಬಾರದು ಕೆಟ್ಟನುಡಿಗಳ
ನಡೆಯಲು ಬಾರದು ಕೆಟ್ಟನಡೆಗಳ
ನುಡಿದಡೇನು ನುಡಿಯದಿದಡೇನು?
ಹಿಡಿದವ್ರತ ಬಿಡದಿರಲು, ಅದೆ ಮಹಾಜ್ಞಾನದಾಚರಣೆ
ಎಂಬೆನು ಅಜಗಣ್ಣ ತಂದೆ.

ನೀರಬೊಂಬೆಗೆ ನಿರಾಳದ ಗೆಜ್ಜೆಯಕಟ್ಟಿ
ಬಯಲ ಬೊಂಬೆಯ ಕೈಯಲ್ಲಿ ಕೊಟ್ಟು ಮುದ್ದಾಡಿಸುತ್ತಿದ್ದನಯ್ಯಾ
ಕರ್ಪೂರದ ಪುತ್ಥಳಿಗೆ ಅಗ್ನಿಯ ಸಿಂಹಾಸನವನಿಕ್ಕಿ
ಅಗ್ನಿ ಕರಗಿ ಕರ್ಪೂರ ಉಳಿದುದಕ್ಕೆ ಬೆರಗಾದೆನಯ್ಯಾ
ಎನ್ನ ಅಜಗಣ್ಣನ ಯೋಗಕ್ಕೆ.

ವಚನಕಾರರ ಪರಿಚಯ

ಜೇಡರದಾಸಿಮಯ್ಯ, ಬಸವಣ್ಣ, ನೀಲಮ್ಮ, ಮುಕ್ತಾಯಕ್ಕೆ, ಹನ್ನೆರಡನೇ ಶತಮಾನದಲ್ಲಿ ಜರುಗಿದ ವಚನ ಚಳುವಳಿ ನಮ್ಮ ಕನ್ನಡ ನಾಡಿನ ಚರಿತ್ರೆಯಲ್ಲಷ್ಟೇ ಏಕೆ ಅಖಂಡ ಭರತ ಖಂಡದ ಚರಿತ್ರೆಯಲ್ಲೇ ಒಂದು ಕ್ರಾಂತಿಕಾರಕ ಘಟನೆ. ಸಮಾಜದ ಎಲ್ಲ ವರ್ಗದ ಶ್ರಮಿಕ ಸಮುದಾಯದ ಜನರು ಅರಿವಿಗೆ ದೀವಿಗೆ ಹಿಡಿದು ತಮ್ಮ ಬಾಳಿನಲ್ಲಿ ಮುತ್ತಿದ್ದ ಹಲವು ಪರಿಯ ಕತ್ತಲನ್ನು ಕಳೆಯಲು ಪ್ರಯತ್ನಿಸಿದ್ದ ಕಾಲಘಟ್ಟ ಇದು. ಕಾಯಕ - ದಾಸೋಹಗಳ ಪರಿಕಲ್ಪನೆಯಲ್ಲಿ

ಬದುಕು ಮತ್ತು ಧರ್ಮವನ್ನು ಸಂಲಗ್ನಗೊಳಿಸಿಕೊಂಡು ಕಲ್ಯಾಣ ರಾಜ್ಯದ ಕನಸನ್ನು ನನಸು ಮಾಡಲು ತೊಡಗಿದ ಆಂದೋಲನವಿದು. ಆಳು, ಅರಸ, ಉಚ್ಚ -ನೀಚ ಎಂಬ ವಿಭೇದವನ್ನು ಕಳೆದು ಮಾನವ ಪ್ರೀತಿಯ ಆರೋಗ್ಯಕರ ಸಂಬಂಧದಲ್ಲಿ ಸಮುದಾಯವನ್ನು ರೂಪಿಸುವ ಆಶಯ ಈ ಆಂದೋಲನದ ನಡೆಯಾಗಿತ್ತು ಇಂಥ ಆಂದೋಲನದ ಉಪವಸ್ತುವಾಗಿ ಹುಟ್ಟಿದ್ದೇ ವಚನ ಸಾಹಿತ್ಯ.

ಜೇಡರ ದಾಸಿಮಯ್ಯ : ಆದ್ಯವಚನಕಾರ ಈತ ನೇಕಾರವರ್ಗದಿಂದ ಬಂದವನು. ಲಿಂಗಭೇದ ಮತ್ತು ಮೌಢ್ಯಗಳನ್ನು ವಿರೋಧಿಸಿದ ಪ್ರಖರ ಚಿಂತಕರಾಗಿ ಹೆಸರಾಗಿದ್ದಾರೆ. 'ರಾಮನಾಥ' ಇವರ ಅಂಕಿತ. ಕನ್ನಡದ ಮೊದಲ ಅಂಕಿತ. ಈತನ ಹೆಂಡತಿ ದುಗ್ಗಲೆಯೂ ವಚನಕಾರ್ತಿ.

ಬಸವಣ್ಣ : ಜಗಜ್ಯೋತಿಬಸವೇಶ್ವರರು ೧೨ನೆಯ ಶತಮಾನದಲ್ಲಿ ವಚನಕ್ರಾಂತಿಯ ನೇತಾರರು. ಬಸವನ ಬಾಗೇವಾಡಿಯಲ್ಲಿ ಜನಿಸಿದ ಇವರ ತಂದೆ ಮಾದರಸ, ತಾಯಿ ಮಾದಲಾಂಬಿಕೆ. ಕೂಡಲಸಂಗಮದಲ್ಲಿ ಜಾತವೇದಗಳ ಶಿಷ್ಯರಾಗಿ ಬೆಳೆದ ಇವರು ಕಲ್ಯಾಣದ ಕ್ರಾಂತಿಗೆ ಕಾರಣರಾದರು. ಜಾತೀಯತೆಯ ನಿರ್ಮೂಲನೆ, ಸಮಾನತೆ ಸ್ಥಾಪನೆಗಾಗಿ ತಮ್ಮನ್ನೇ ಸಮರ್ಪಿಸಿಕೊಂಡ ವಿಶ್ವದ ಅತ್ಯುನ್ನತ ದಾರ್ಶನಿಕರಾಗಿದ್ದಾರೆ.

ನೀಲಮ್ಮ : ನೀಲಾಂಬಿಕೆ, ನೀಲಲೋಚನೆ - ಈ ಹೆಸರುಗಳಿಂದ ಪ್ರಸಿದ್ಧಳಾದ ಈಕೆ ಬಸವಣ್ಣನವರ ಹೆಂಡತಿ. ಮೊದಲನೆಯ ಹೆಂಡತಿಯಾದ ಗಂಗಾಂಬಿಕೆ ಸೋದರ ಮಾವನಾದ ಬಲದೇವನ ಮಗಳೆಂದು ಸ್ಪಷ್ಟವಿದೆ - ಆದರೆ ನೀಲಾಂಬಿಕೆ ಯಾರ ಮಗಳೆಂಬ ವಿಷಯವಾಗಿ, ಇವಳ ನಿಜನಾಮದ ವಿಷಯವಾಗಿ ಕಾವ್ಯಗಳು ಸಂದೇಹ ರೂಪದ ಅಭಿಪ್ರಾಯಗಳನ್ನು ನೀಡಿವೆ. ಹರಿಹರ ಮತ್ತು ಭೀಮಕವಿ ಗಂಗಾಭಿಕೆಯೊಂದಿಗೆ "ಮಾಯಾದೇವಿ" ಎಂಬ ಹೆಸರನ್ನು ಬಳಸಿರುವುದನ್ನು ನೋಡಿದರೆ ಮಾಯಾದೇವಿಯ ಇನ್ನೊಂದು ಹೆಸರು ನೀಲಾಂಬಿಕೆಯೆಂದು ಊಹಿಸಬೇಕಾಗುತ್ತದೆ.

ನೀಲಲೋಚನೆಯ ಜೀವನದ ವಿವರಗಳು ಅಷ್ಟಾಗಿ ನಮಗೆ ತಿಳಿದು ಬರದಿದ್ದರೂ ಬಸವಣ್ಣನ ಬದುಕಿನಲ್ಲಿ ಇವಳ ಪ್ರವೇಶ ಅತಿ ಮುಖ್ಯವಾದುದೆಂದು ವಚನಸಾಹಿತ್ಯ, ಕಾವ್ಯಸಾಹಿತ್ಯಗಳು ಸ್ಪಷ್ಟಪಡಿಸುತ್ತವೆ. ಸಾಮಾಜಿಕ ಸುಧಾರಣೆಯ, ಧಾರ್ಮಿಕ ಜಾಗೃತೆಯ ಮಹಾಮಣಿಹವನ್ನು ಹೊತ್ತ ಬಸವಣ್ಣನಿಗೆ ಹಿನ್ನೆಲೆ ಮುನ್ನೆಲೆಯಾಗಿ ದುಡಿದ ಇವಳು, ಕಲ್ಯಾಣ ಕ್ರಾಂತಿಯ ಸಂದರ್ಭದಲ್ಲಿ ತಂಗಡಿಯಲ್ಲಿ ಐಕ್ಯಳಾದಳೆಂದು ಪ್ರತೀತಿಯಿದೆ.

ಮುಕ್ತಾಯಕೃ: ಅಜಗಣ್ಣ, ಅಜಗಣ್ಣ ತಂದೆ, ಎಂಬ ಮುದ್ರಿಕೆಗಳಿಂದ ೨೨ ಚನಗಳನ್ನು ಬರೆದ ಮುಕ್ತಾಯಕೃನ ಅನುಭಾವಿತ ನೆಲೆ ಶಿವಶರಣೆಯರಲ್ಲಿ ಎದ್ದು ಕಾಣುವಂತಹದು. ಅಜಗಣ್ಣ ಮತ್ತು ಮುಕ್ತಾಯಕೃ ಅಣ್ಣ-ತಂಗಿಯಾಗಿದ್ದು, ಇಬ್ಬರೂ ವಚನ ರಚನೆ ಮಾಡಿದ್ದಾರೆ. ಅಣ್ಣನನ್ನೇ ಗುರುವಾಗಿ ಸ್ವೀಕರಿಸಿದ ಮುಕ್ತಾಯಕೃ ಆ ಹೆಸರನ್ನೇ ತನ್ನ ಮುದ್ರಿಕೆಯಾಗಿ ಇಟ್ಟುಕೊಂಡರು ಸಹಜವಾಗಿದೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಡಾಂಭಿಕ ಭಕ್ತರನ್ನು ದಾಸಿಮಯ್ಯನ ವಚನಗಳು ಹೇಗೆ ವಿಡಂಬಿಸಿವೆ?
೨. ದಾಸಿಮಯ್ಯನವರ ಭಕ್ತಿಯ ಸ್ವರೂಪವನ್ನು ವಿವರಿಸಿ.
೩. "ಒಡಲು" ದಾಸಿಮಯ್ಯನವರ ವಚನಗಳ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ.
೪. ಬಸವಣ್ಣನವರ "ಸ್ಥಾವರ"- 'ಜಂಗಮ" ಪರಿಕಲ್ಪನೆಯನ್ನು ವಿವರಿಸಿ.
೫. "ಕರ್ತಾರನ ಕಮ್ಮಟ" ಯಾವುದು? ಅದರ ವ್ಯಾಪ್ತಿ ವಚನಗಳಲ್ಲಿ ಹೇಗೆ ಪ್ರಕಟಗೊಂಡಿದೆ?
೬. "ದೇಹವೇ ದೇಗುಲ" ಬಸವಣ್ಣನವರ ವಚನದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ.
೭. ನೀಲಮ್ಬಿನ ವಚನಗಳಲ್ಲಿ ವ್ಯಕ್ತವಾದ ವೈಚಾರಿಕತೆಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
೮. ವ್ಯಕ್ತಿ ತನ್ನನ್ನು ತಾನೇ ಅರಿಯುವ ಬಗೆಯನ್ನು ವಚನಕಾರರು ಹೇಗೆ ನಿರೂಪಿಸಿದ್ದಾರೆ?
೯. ಮುಕ್ತಾಯಕೃ ನಿರೂಪಿಸುವ ನಡೆ-ನುಡಿಗಳನ್ನು ವಿವರಿಸಿ.
೧೦. ಮುಕ್ತಾಯಕೃಳ ವಚನಗಳ ಆಶಯವೇನು?
೧೧. ಸ್ವತಂತ್ರ ವ್ಯಕ್ತಿತ್ವದ ದೃಢತೆ" ವಚನಕಾರ್ತಿಯರ ವಚನಗಳಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತಗೊಂಡಿದೆ?

*

೨. ದೇವರು - ಪೂಜಾರಿ

- ಕುವೆಂಪು

ಆಶಯ:

ಪ್ರಖರ ನಿರೂಪಣೆಗೆ ಹೆಸರಾದ ಕುವೆಂಪು ಅವರ ಪುಸ್ತಕವನ ಓದುಗರನ್ನು ಚಿಂತೆಗೆ ಹಚ್ಚುತ್ತದೆ. ಕತ್ತಲೆ ಬರಿ ನಿಸರ್ಗದಲ್ಲ ಮಾನಸಿಕ, ಬೌದ್ಧಿಕ ಕತ್ತಲೆಗಳೂ ನಮ್ಮನ್ನು ಆವರಿಸಿವೆ. ಆಸೆ- ಮೌಢ್ಯ ಅಜ್ಞಾನಗಳೆಂಬ ಕತ್ತಲೆಗಳು ಭಕ್ತಿಯನ್ನು ಪ್ರದರ್ಶನ ವಸ್ತುವಾಗಿಸಿವೆ. ಆಚಾರ-ಧರ್ಮಗಳು ಕಬ್ಬಿಣದ ನೇಣುಗಳಾಗುತ್ತವೆ. ಇಂಥ ಕತ್ತಲೆಯಲ್ಲಿ ಮುಳುಗಿದಾಗ ಮೌಢ್ಯವೆಂಬ ಕಾಡಿಗೆ ಬೆಂಕಿಹಚ್ಚಿ ಜ್ಞಾನದ ಬೆಳಕು ನೀಡುವ ಯತ್ನ ನಡೆದಾಗ ಪುರೋಹಿತ ಶಾಹಿಗಳು ಆ ಯತ್ನವನ್ನು ಸುಟ್ಟು ಬೂದಿಮಾಡಿ ಮೆರೆಯುತ್ತಾರೆ. ಉದ್ಧಾರಕರನ್ನು ಈ ನಾಡು ಸಹಿಸುವುದಿಲ್ಲ ಎಂಬ ಸೂಚನೆ ಇಲ್ಲಿದೆ. ಸುಧಾರಿಸುವ ದೈವಿ ಚೇತನಗಳಿಗೆ ಉಳಿವಿಲ್ಲ. ಶೋಷಿಸುವ ಪೂಜಾರಿಗಳೇ ಉಳಿಯುತ್ತಾರೆ ಎಂಬ ಸೂಚನೆ ಇಲ್ಲಿದೆ.

೧

ದಿಗಂತದಿಂದ ದಿಗಂತಕ್ಕೆ ಹಬ್ಬಿದೆ
ವಿಶ್ವವ ತಬ್ಬಿದೆ
ರುಂದ್ರ ರಾತ್ರಿ !
ಸಾಂದ್ರ ತಮಂಧದಿ ಮುಳುಮುಳುಂಗುತೆ ಕರಂಗಿದೋಲಿದೆ ಧಾತ್ರಿ!
ವಿಶಾಲ ವೈಯಮದಿ ತಾರೆಗಳಿಲ್ಲ,
ಶಶಿಯಿಲ್ಲ,
ಕಾಂತಿಯ ಕಣವಿಲ್ಲ !
ಜಗತ್ತು
ಪ್ರಜ್ಞೆಯಿಲ್ಲದೆ ಶೂನ್ಯಮಹಾಶವ ಬಿದ್ದವೊಲಿದ್ದತ್ತು !

೨

ಹುಸಿಮುತೆ,
ಇಂದ್ರಿಯ ಲೋಲುಪತೆ,
ಮೌಢ್ಯದ ಸಂತ್ರಪ್ತಿ,
ಅಜ್ಞಾನದ ಸುಪ್ತಿ !
ಭಕ್ತಿಯ ಹೆಸರನು ಧರಿಸುತೆ ಮೆರೆಯುವ ಚಿತ್ತದ ದಾಸ್ಯ :
ದೇವರ ಗುಡಿ ಎಂಬುವ ಸೆರೆಯಲ್ಲಿ
ಸ್ವಾತಂತ್ರ್ಯದ ಶವಸಂಸ್ಕಾರದ ಪರದೆಯ ಮರೆಯಲ್ಲಿ
ಪೂಜೆಯ ನಕಲಿಯ ಪರಿಹಾಸ್ಯ !
ಶಾಸ್ತ್ರದ ಆಚಾರದ ಧರ್ಮದ ಕಬ್ಬಿಣನೇಣು,
ಸಿಲುಕಿಹುದದರಲಿ ಮಾನವನಮೃತಾತ್ಮದ ಗೋಣು!

೩

ಇರೆ ಇಂತುಟು ಭುವನದ ಬಾಳು,
ಅದೊ ನೋಡದೊ ಕೇಳು :
ನಿದ್ರೆಯ ಕದಡಿದೆ ಅವತಾರನ ತೂರ್ಮದ ವಾಣಿ :
ಕಂಪಿಸುತಿದೆ ಜಡತೆಯೊಳದ್ದಿದ ಕ್ಷೋಣಿ !
ದಕ್ಷಿಣ ಹಸ್ತದಿ ಪ್ರಜ್ವಲಿಸುತ್ತಿದೆ ಉರಿವ ಹಿಲಾಲು,
ಕತ್ತಲೆಯನು ಕತ್ತರಿಸುವ ಬೆಂಕಿಯ ಕರವಾಳು!
ಮೌಢ್ಯ ಕಾನನಕೆ ಬೆಂಕಿಯ ಹೊತ್ತಿಸಿ
ತಿಮಿರ ಸಮುದ್ರದ ಶೋಷಿಸಿ ಬತ್ತಿಸಿ
ಪ್ರಸರಿಸಿ ಜ್ವಾಲಾಜ್ಯೋತಿಯ ನಡೆದಿರೆ ಅವತಾರನು ಮುಂದೆ,
ಆದೊ ಹೊರಟನು ಪೂಜಾರಿಯು ಹಿಂದೆ!
ಪಂಚಪಾತ್ರೆಯಲಿ ಪಾವನತೀರ್ಥವ ಬಂಧಿಸುತೆ
ವಂದನೆ ಆರಾಧನೆ ಅಭಿಷೇಕದ ನೆವದಿಂದೆ
ಅವತಾರನು ಹೊತ್ತಿಸಿದುರಿಯನು ಅಗ್ರೋದಕದಿಂ ನಂದಿಸುತೆ,
ಬೆಂಕಿಯನಾರಿಸಿ ಬೂದಿಯ ಮಾಡಿ
ಆ ಬೂದಿಯ ಮಹಿಮೆಯ ಕೊಂಡಾಡಿ
ಅದೊ ಹೊರಟನು ಪೂಜಾರಿಯು ಹಿಂದೆ !
ಭಕ್ತರು ದೂರದ ತೂರ್ಮವನಾಲಿಸಿ ಬಳಿ ಬರುವನಿತರಲಿ
ಆ ತೂರ್ಮ ಮಹಾಸ್ವನವೆಲ್ಲಿ ?

ಕೇಳುತಲಿದೆ ಪೂಜಾರಿಯ ಬರಿ ಕಿರುಗಂಟಿಯುಲಿ !
ಅವರಾ ಕಂಡಾ ಕಿಚ್ಚಿನ ಕಾಂತಿಯದೆಲ್ಲಿ ?
ಬೆಳಕಿಗೆ ಬದಲಾಗವರನು ಕಾದಿದೆ ಬರಿ ಬೂದಿಯ ರಾಶಿ !
ಕಟ್ಟ ಕಡೆಯಲಿ
ದೇವರ ಗುಡಿಯಲಿ
ಪೂಜಾರಿಯ ದಿಟದ ನಿವಾಸಿ :
ದೇವರೆ ಪರದೇಶಿ !
ಜ್ಯೋತಿಯ ಬಯಸುತೆ ಬಹ ಭಕ್ತರಿಗೆ ವಿಭೂತಿಯ ಹಂಚುವನು!
ಬೆಂಕಿಯ ನಂದಿಸಿ
ಬೂದಿಗೆ ವಂದಿಸಿ
ದೇವರ ಮರೆಗೈಯುತೆ ಪೂಜಾರಿಯ ಮಿಂಚುವನು!

೪

ಸರಿ, ಮತ್ತೆ-
ದಿಗಂತದಿಂದೆ ದಿಗಂತಕೆ ಹಬ್ಬಿದೆ ರುಂದ್ರರಾತ್ರಿ!
ಸಾಂದ್ರ ತಮಂಧದಿ ಮುಳುಮುಳುಗುತ್ತೆ
ಕರಂಗಿದೋಲಿದೆ ಧಾತ್ರಿ!

ಕವಿ ಪರಿಚಯ

ಕುವೆಂಪು : ಹೊಸಗನ್ನಡದ ಮೊದಲ ಮಹಾಕವಿ. ಎರಡನೇ ರಾಷ್ಟ್ರಕವಿ ಕುವೆಂಪು ಅವರು ಮಲೆನಾಡಿನ ಕೊಡುಗೆ. ೨೯-೧೨-೧೯೦೪ ರಂದು ಚಿಕ್ಕಮಗಳೂರು ಜಿಲ್ಲೆ ಹಿರೇಕೊಡಗಿನಲ್ಲಿ ಜನಿಸಿದ ಕುವೆಂಪು ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲೆ ತೀರ್ಥಹಳ್ಳಿ ತಾಲ್ಲೂಕಿನ ಕುಪ್ಪಳ್ಳಿಯವರು. ಸಾಹಿತ್ಯದ ಎಲ್ಲ ಪ್ರಕಾರಗಳಲ್ಲಿಯೂ ಮಹತ್ವದ ಕೃತಿಗಳನ್ನು ನೀಡಿರುವ ಕುವೆಂಪು ಅವರು 'ಶ್ರೀ ರಾಮಾಯಣ ದರ್ಶನಂ' ಮಹಾಕಾವ್ಯ ರಚಿಸಿ ಕನ್ನಡಕ್ಕೆ ಪ್ರಥಮ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ, ಪ್ರಥಮ ಜ್ಞಾನ ಪೀಠ ಮತ್ತು ಪ್ರಥಮ ಪಂಪ ಪ್ರಶಸ್ತಿಗಳನ್ನು ತಂದುಕೊಟ್ಟರು. ಕನ್ನಡದ ಗೌರಿಸಂಕರ ಕುವೆಂಪು ೧೯೯೪ ರಲ್ಲಿ ನಿಧನರಾದರು. ನವೋದಯ ಸಂದರ್ಭದಲ್ಲಿ ವೈಚಾರಿಕತೆಯನ್ನು ನಿರೂಪಿಸಿದ ಕುವೆಂಪುರವರ ಪ್ರಗತಿಪರತೆ, ಸಮನ್ವಯತೆ, ವಿಶ್ವವಾನ್ವಯ ಪ್ರಜ್ಞೆ ಆದರಣೀಯ. ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಪತಿಗಳಾಗಿದ್ದರು.

ಪ್ರಶ್ನೆಗಳು :

೧. ದೇವರು ಮತ್ತು ಪೂಜಾರಿ ಕವಿತೆಯಲ್ಲಿ ದೇವರು ಯಾರು? ಏನನ್ನು ಪ್ರತಿನಿಧಿಸುತ್ತಾನೆ?
೨. ದೇವರು ಮತ್ತು ಪೂಜಾರಿ ಮೌಢ್ಯ ಮತ್ತು ವೈಚಾರಿಕತೆಗಳ ಸಂಘರ್ಷವನ್ನು ಹೇಗೆ ನಿರೂಪಿಸುತ್ತದೆ? ವಿವರಿಸಿ.
೩. 'ದೇವರು ಮತ್ತು ಪೂಜಾರಿ' ಕವಿತೆಯಲ್ಲಿ ಅವತಾರ ಪುರುಷನ ಪ್ರಯತ್ನಗಳು ಮತ್ತು ಪೂಜಾರಿಯ ಪ್ರತಿಕ್ರಿಯೆಗಳು ಹೇಗೆ ಚಿತ್ರಣಗೊಂಡಿವೆ?
೪. ದೇವರು ವಿವೇಕ - ವೈಚಾರಿಕತೆಯನ್ನು ಪೂಜಾರಿ ಮೌಢ್ಯ ಸಂಪ್ರದಾಯಗಳನ್ನು ಪೋಷಿಸುತ್ತಾರೆ. ದೇವರು ಮತ್ತು ಪೂಜಾರಿ ಕವಿತೆ ಮೂಲಕ ಸಮರ್ಥಿಸಿ.

*

೪. ಗಂಗಾಮಾಯಿ

ಡಾ. ಚಂದ್ರಶೇಖರ ಕಂಬಾರ

ಆಶಯ:

ಕೆರೆಯೊಂದನ್ನು ಕೇಂದ್ರ ಪ್ರತಿಮೆಯಾಗಿಸಿಕೊಂಡು ಬಂದಿರುವ ಇಲ್ಲಿ ಸಂಕೇತ ಪ್ರತಿಮೆಗಳೇ ಮುಖ್ಯವಾಗಿ ನವ್ಯತನ ಎದ್ದು ಕಾಣುತ್ತದೆ. ನಮ್ಮ ಸಮಾಜದ ಬದುಕು ಸೂರ್ಮೋದಯದೊಂದಿಗೆ ಶುರುವಾಗುವ ಕೆರೆಯ ಬದುಕು ಏನೆಲ್ಲಗಳಿಗೆ ಸಾಕ್ಷಿಯಾಗುತ್ತದೆ. ನೈರ್ಮಲ್ಯ ಪ್ರಜ್ಞೆಯ ಕೊರತೆ, ಮೌಢ್ಯತೆಯ ಪೋಷಣೆ ಹೇಗೆ ಬದುಕನ್ನು ಹದಗೆಡಿಸುತ್ತದೆ ಎಂಬುದರ ಆಲೋಚನೆ ಮೈನಡುಗಿಸುತ್ತದೆ.

ನಿಂತನೀರಾದ ಬದುಕಿನಲ್ಲಿ ಮೌಢ್ಯವೆ ಮೆರೆಯುತ್ತದೆ. ತೋಂಡಿ ಸಂಪ್ರದಾಯದ ಮೂಲಕವೇ ಹರಿದ ಗಾಳಿ ಮಾತುಗಳೇ ಬಲವಾದ ನಂಬಿಕೆಗಳಾಗುತ್ತವೆ. ಅನೈತಿಕತೆ, ಅರ್ಥಹೀನತೆಗಳು ಹರಿಯುವ ಹೊಳೆಯಾಗ ಬೇಕಾದ ಜೀವನವನ್ನು ನಿಂತ ನೀರಿನ ಕೆರೆಯಾಗಿಸಿ, ಹೊಂಡವಾಗಿಸಿ ಕೊಳೆಸಿಬಿಡುತ್ತದೆ. ಒಂದು ಕೆರೆಯ ಪ್ರತಿಮೆ ಮೂಲಕ ನಾಡಿನ ಸಮಾಜದ ಬದುಕನ್ನ ಪ್ರತಿಮಿಸುವ ಮೂಲಕ ಎಚ್ಚರಿಸುವ ಪ್ರಯತ್ನ ಇಲ್ಲಿದೆ.

ಕೆಂಪಾನ ಕೆಂಪುಗುಡ್ಡ, ಬೆಳ್ಳಾನ ಬಿಳಿಗುಡ್ಡ ಒಡಮುರಿದು ಕೂಡಿದ ಒಡ್ಡಿನಲ್ಲೇ ನಮ್ಮೂರ ಕೆರೆ; ಹೆಸರು ಗಂಗಾಮಾಯಿ.

ಮೂರು ಬದಿ ಮರಗಿಡ ಕಂಟಿ ಸಸ್ಯಕೋಟಿಯ, ಹೊಕ್ಕವನು ಹೊರಬರದ ಏಳುಸುತ್ತಿನ ಕೋಟಿ. ಒಳಗಡೆಯಲ್ಲಿ ನಾಯಿ ನರಿ ಹಂದಿ ಶುಕಪಿಪಾದಿಯ ಚೌರಾಂಸಿ ಲಕ್ಷ ಕೀಚು ಕಿರಚು ಅದಕದಕ್ಕೆ ಅದರದರ ಪಾಲಿನ ಗಾಳಿ ಮಳೆ ಬೆಳಕು, ಮೆಳೆ ಪೊದೆ ಹಸಿರು ಆಹಾರ ಭಯ ನಿದ್ರೆ ಮೈಥುನಾದಿಗಳು. ದಡದ ಗಿಡಗಳ ನೆತ್ತಿ ಜೋತ ಭಾವಲಿ ಹಿಂಡು ನೀರಿನೆದೆಯಲ್ಲದರ ವಕ್ರ ನೆರಳು.

ತಲೆತಲಾಂತರದ ಹೊಲಿತೆಪ್ಪ ನೋಣನೊರಜು ಕೀಟಗಳ ಸದಾ ಸಂಚಾರ, ಕೊಡುಕೊಲ್ಲು ವ್ಯವಹಾರ, ದರ ನಿರಾತಂಕ.

ತಂಗಾಳಿ ಸುಳಿಯದ, ದೊಡ್ಡ ತೆರೆ ಮೂಡಿ ಮುಳುಗದ,
ಹರಿಯುವುದಕ್ಕೆ ದಿಕ್ಕಿಲ್ಲದ ನೀರು ಹಳೆಮರದ ಬೇರುಗಳಲ್ಲಿ, ಊರಿನ
ಗಟಾರು ಮೋರಿಗಳಲ್ಲಿ,
ಏಡಿಮಣ್ಣಿನ ಗೋಲ ಬಿಳಿಗುದ್ದಿನಲ್ಲಿ ಪಿಸು ನುಡಿಯುವುದು.

ಮೂಡಣದ ಮುದಿಕರುವೊಡೆದುನೆತ್ತರು ಕೀವು ಸೋರಿತೋ-
ಸುರುವಾಯ್ತಲ್ಲಿ ಚಲನೆ: ತೆರೆಯ ಮಿಡಿನಾಗರಗಳೆದ್ದು
ಮುರಿದಾಡಿ, ಮಣಿದು, ಹೊಡಮರಳಿ, ತಳುಕು ಬಿದ್ದಾಡಿ ಮೂಡಿದ್ದ
ಬಾವಲಿಹಿಂಡು ಗೆರೆಗೆರೆಯಾಗಿ ಹಂಚಿ, ಹಲವಾರಾಗಿ, ಸುಕ್ಕು ಗಟ್ಟಿ
ಸುತ್ತುವುವು. ರಾಡಿ ಗಿಜಿಗಿಜಿ ಕೆಸರು ನೀರಿನಲ್ಲಿ ಅಂಗಾತಾಗಿ
ತೇಲುವ ಚಿಳಿಮಿಳಿ ಮೀನು ಹೆಕ್ಕಿ ತಿನ್ನುತ್ತ ತಿರುಗುವವು
ಒಂಟಿಗಾಲಿನ ನೂರೆಂಟು ಬಕ. ತೊಡಗುವರು ಮಂದಿ ಈ
ನೀರ ಬಳಸುವುದಕ್ಕೆ ಕುಡಿಯುವುದಕ್ಕೆ, ಮೀಯಲಿಕ್ಕೆ, ದನದ
ಸೆಗಣಿ ಮೈಗಂಜಳ ತೊಳೆಯಲಿಕ್ಕೆ, ನಮ್ಮಪ್ಪ ಬೀರಪ್ಪನ ಪಾದ
ಪಡಕೊಳ್ಳಲಿಕ್ಕೆ. ಹಡದವ್ವ ಕರೆವ್ವನ ಕರಿಮೈ ಎರೆಯಲಿಕ್ಕೆ,
ಹೊರಕಡೆಗೆ, ಹೇಲುಚ್ಚೆಗೆ, ಬೋಳಿಯರ ಮಡಿ ಒದ್ದೆಗೆ,
ಭಟ್ಟರಾಚಮನಕ್ಕೆ, ಅದಕ್ಕೆ ಇದಕ್ಕೆ ಎದಕ್ಕು.
ಒಟ್ಟು ಖರ್ಚಾದ ಕೆರೆನೀರು ಬಚ್ಚಲದಿಳಿಜಾರಿನಗುಂಟ ಹರಿದು
ಕೆರೆಗೇ ಸೇರುವ ದಿನನಿತ್ಯದ ವ್ಯವಹಾರ, ಈ ಕೆರೆಯ ಚಮತ್ಕಾರ.

ಇದಕ್ಕೂ ಇವೆ ಹಳ್ಳಿ ಹಾರುವರು ಚಂಡಿಕೆಯಂತೆ ಹೊಸದ
ಗಂಗಾಷ್ಟಕ ಶತಕ, ಲಹರಿ, ಸಹಸ್ರನಾಮಾವಳಿ, ಸ್ಥಳ ಪುರಾಣಗಳು ;
ಹಳೇದೇವರ ಜಡೆಯ ಜಿಡ್ಡು, ಮುನಿತೊಡೆಯ ಕಿಲುಬು,
ಕಿವಿಯ ಪಿಸುರು ತೊಡೆದು ಮಡುಗೊಂಡವಳೇ ಗಂಗಾಮಾಯಿ ;
ಅಂತೆಯೆ ಬರುವಾಗ ಉಡಿತುಂಬ ತಂದಳು ತಾಯಿ ; ಆ
ಸೀಮೆಯ ಪವಿತ್ರ ಕೆಸರುಸುಕು ರೋಗಾಣು,
ಹಗ್ಗಕ್ಕೆ ಹಾವೆಂಬ ಭಯ,
ಕಾಂಬ ಕಣ್ಣಿಗೆ ಮಾಯದ ಕನ್ನಡಿಯು
ಘನಮಹಿಮಳು ತಾಯಿ,-ತಾಮ್ರದ ದುಡ್ಡಿನದ್ದಿದ ತಕ್ಷಣವೆ
ಕಿಲುಬಿಸುವಾಕೆ ; ಬೆಳಗಿದರೆ ಬಂಗಾರ ಇಲ್ಲವೆ ಅಂಥ ಭ್ರಮೆಯ
ಹುಟ್ಟಿಸುವಾಕೆ, ಬಂಗಾಲದ ಜಾದುಗಾರರಿಗೆ ಬಾಣಂತಿಯ ಕೈ

ಒದಗಿಸಿದಾಕೆ ಮೂರೇ ಗುಟುಕಿಗೆ ಬಂಜೆಯರ ಗರ್ಭ ಗಟ್ಟಿಗೊಳಿಸಿದಾಕೆ.
ಕಲಿವ ಹುಡುಗರನ್ನು ಸೈಕಲ್ ಸಮೇತ ಹೊಟ್ಟೆಯೊಳಗೆ
ಅಟ್ಟಿಸಿಕೊಂಡಾಕೆ 'ಏಸು ನಡೆದದ್ದು ಇದೇ ನೀರಿನ ಮೇಲೆ'ಂದ
ಪಾದ್ರಿಗೆ ಹೊಲತಿಯ ಮೈತುಂಬಿ ಹೌದೆಂದಾಕೆ.

ಇದರಾಳ ನಿರಾಳ ಅತಳವಿತಳ ಪಾತಾಳ ರಸತಾಳದ
ಒಳಗಿನೊಳಗಿನ ತಳ. ಕಲ್ಲು ಮಣ್ಣಲ್ಲ - ಹಾಗಂದವನ ಬಾಯಿಗೆ
ಬುಚು ಬುಚು ಹಳ ಬೀಳ-ಮುತ್ತು ರತ್ನದ ಹೇರಳರಾಶಿ
ಇದರ ತಳ, ಅಲ್ಲಿಗೂ ಇಳಿದವರು. ನಾಗಿನಿಯರ ಬಳಸಿದವರೆಂಬ
ಖ್ಯಾತಿಯವರು, ನಾಕೈದಾರು ಜನ, ನಮ್ಮೂರವರೆ, ಕಲ್ಲು ದೇವರಾಗಿ,
ಲಾವಣಿಗೆ ಕಥೆಯಾಗಿ, ಹಬ್ಬ ಹುಣ್ಣಿವೆಗೊಮ್ಮೆ ಪೂಜೆಗೊಳ್ಳುತ್ತಾರೆ.
ಕಂಠಮಟಿ ಮತ್ತು ರತ್ನಾದಿಗಳನ್ನೊತ್ತೊತ್ತಿ ತಿಂದ ಪಾಪ
ಚಿಳಿಮಿಳಿ ಮೀನು, ದಕ್ಕಲಾರದೆ ಸುತ್ತು ತೇಲುತ್ತವಂತೆ.
ಅಂತೆಯೇ ಒಂಟಿಗಾಲಿನ ಬಕವಾಗಿ ಬಕದ ಬಾಯಾಗಿ
ಬಾಯ ಜೊಲ್ಲಾಗಿ ಸುರಿಯುತ್ತಾರೆ ಜನ ಹಗಲು ರಾತ್ರಿ

ಸದ್ಯ ಹಾದರದ ಕೂಸು ಕರ್ಣರಿಗೆ, ಅದನೊಪ್ಪದ ಪುಕ್ಕರಿಗಿದು
ಆಶ್ರಯ ಸ್ಥಾನ, ಇದು ಖರೆ. ಇಂಥಾ ಮಂದಿ ಇರುತ್ತಾರಲ್ಲ
ಗೋರಿಗೆ ದಿಕ್ಕಿರದವರು, ಬೆಂಕಿಯ ರಿಣವಿರದವರು
ಮೂರು ಹಗಲು, ಮೂರು ರಾತ್ರಿ ಕೆರೆಯಲ್ಲಿ ತೇಲಿದ ಮೇಲೆ
ಗಂಗಾಮಾಯಿ ಕಣ್ಣು ತೆರೆಯುತ್ತಾಳೆ. ಆಮೇಲೆ
ಸದರಿಯವರ ದೇಹ ಜಲಚರಗಳಿಗೆ, ಆತ್ಮ ಗಿಡಗಳಿಗೆ
ಜೋತುಬಾವಲಿಯಾಗಿ ಮತ್ತು ರತ್ನಗಳ ಕಾಯುವ
ಗಂಗವ್ವನ ಖಾಸಾಪೋಲೀಸು ಪಡೆಗೆ ಸೇರುತ್ತಾರಂತೆ.
ಈ ಮಾತಿಗೆ ಭಟ್ಟರ ಪುಸ್ತಕದಲ್ಲಿ, ಕುರುಬರ ಹಾಡಿನಲ್ಲಿ
ಆಧಾರವಿಲ್ಲ ಹೌದು: ಆದರೆ ಭಟ್ಟರು ತೋಂಡಿಯಲ್ಲಿ
ಹೀಗೆಂದು ಅಪ್ಪಣೆ ಕೊಡಿಸಿದ್ದುಂಟು.

ಕವಿ ಪರಿಚಯ

ಡಾ.ಚಂದ್ರಶೇಖರ ಕಂಬಾರ : 'ವರಕವಿ' ಬೇಂದ್ರೆ ನಂತರ ಬೆಳಗಿದ ಅಗಾಧ ಜಾನಪದ ಪ್ರತಿಭೆ ಚಂದ್ರಶೇಖರ ಕಂಬಾರರು ಜೋಕುಮಾರ ಸ್ವಾಮಿ, ಸಂಗಬಾಳ್ಯಾದಂಥ ನಾಟಕಗಳನ್ನು ಚಕೋರಿ ಎಂಬ ಮಹಾಕೃತಿಯನ್ನು ಸಿರಿಸಂಪಿಗೆ, ಹೇಳತೇನ ಕೇಳ, ಗಂಗಾಮಾಯಿ ಯಂಥ ವಿಶಿಷ್ಟ ಕೃತಿಗಳನ್ನು ನೀಡಿದ್ದಾರೆ. ಕಂಬಾರರು ಹಂಪಿಯ ಕನ್ನಡ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಪ್ರಥಮ ಕುಲಪತಿಗಳಾಗಿ, ೨ ಅವಧಿಗಳಿಗೆ ಸೇವೆ ಸಲ್ಲಿಸಿದ ಮಹನೀಯರಾಗಿದ್ದಾರೆ. 'ಶಿಖರ ಸೂರ್ಯ' ಕಾದಂಬರಿ ಪ್ರಸಿದ್ಧವಾಗಿದೆ. ೧೯೩೭ ರಲ್ಲಿ ಬೆಳಗಾವಿ ಜಿಲ್ಲೆ ಘೋಡಗೇರಿಯಲ್ಲಿ ಜನಿಸಿದ ಕಂಬಾರ ಅಪ್ಪಟದೇಸಿ ಪ್ರತಿಭೆ. ದೇಶ- ವಿದೇಶಗಳಲ್ಲಿ ದೇಸಿಕನ್ನಡದ ಕಂಪನ್ನು ಹರಡಿದ ಇವರು ನಟ, ಗಾಯಕ, ನಾಟಕಕಾರ, ನಿರ್ದೇಶಕ ಹೀಗೆ ಬಹುಮುಖ ಪ್ರತಿಭೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಗಂಗಾಮಾಯಿ ಕವಿತೆಯಲ್ಲಿ ಕಂಬಾರರು ಕೆರೆಯ ಪರಿಸರವನ್ನು ಹೇಗೆ ಚಿತ್ರಿಸಿದ್ದಾರೆ?
೨. ಸೂರ್ಯೋದಯ ಮತ್ತು ಅದರ ನಂತರದ ಘಟನೆಗಳು ಗಂಗಾಮಾಯಿಯಲ್ಲಿ ಹೇಗೆ ನಿರೂಪಿಸಲ್ಪಟ್ಟಿವೆ?
೩. ಕಂಬಾರರ 'ಗಂಗಾಮಾಯಿ' ನಿಂತ ನೀರಾದ ಬದುಕನ್ನು ಅಲ್ಲಿನ ನಿಷ್ಕ್ರಿಯತೆ -ಮೌಢ್ಯತೆಗಳನ್ನು ಹೇಗೆ ಖಂಡಿಸುತ್ತದೆ ತಿಳಿಸಿ.
೪. 'ಗಂಗಾಮಾಯಿ' ಕಾವ್ಯ ನವ್ಯದ ಪ್ರತಿಮಾತ್ಮಕ ವಿಧಾನವನ್ನು ಹೆಚ್ಚೆಚ್ಚಿಗೂ ಹೇಗೆ ಪರಿಣಾಮಕಾರಿಯಾಗಿ ಚಿತ್ರಿಸಿದೆ?
೫. ಅನೈತಿಕ ಭ್ರಷ್ಟಾಚಾರ - ಅಜ್ಞಾನಗಳು ಬದುಕನ್ನು ಮಡುಗಟ್ಟಿಸಿಬಿಡುವ ವಿಷಾದ ಕಂಬಾರರ ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರಣಗೊಂಡಿದೆ? ವಿವರಿಸಿ.

*

**ಬಿ.ಎ/ಬಿ.ಎಚ್.ಎಮ್/ಬಿ.ಎಸ್.ಡಬ್ಲ್ಯೂ
ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್**

ಪರಿವಿಡಿ

I. ಕಾವ್ಯ ಭಾಗ

೧. ನೆಲಕ್ಕೂರೊಳಂ ಪಂಥಮುಂಟೇ - ಪಂಪ ೧-೫
 ೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ, ಅಮುಗೆ ರಾಯಮ್ಮ ೬-೯
 ೩. ದೇವರು ರುಜು ಮಾಡಿದನು - ಕುವೆಂಪು ೧೦-೧೨
 ೪. ಕವನ ಹುಟ್ಟುವ ಸಮಯ - ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ ೧೩-೧೪

II . ಕಥಾ ಸಾಹಿತ್ಯ

೧. ತಿರುಕಣ್ಣನ ಮತದಾನ - ನಿರಂಜನ ೧೫-೨೭
 ೨. ಪಂಚೋಲ್ಲಾಸಿ ಪಿಶಾಚಿಯ ಸವಾಲು - ಕೆ.ಪಿ. ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ ೨೮-೩೯
 ೩. ಡಾಂಬರು ಬಂದುದು - ದೇವನೂರು ಮಹಾದೇವ ೪೦-೪೯

III .ಜಾನಪದ

೧. ತನ್ನನ್ನು ತಾನು ವರಿಸಿದ ರಾಜಕುಮಾರ
 - ಸಂಗ್ರಹ: ಎ.ಕೆ. ರಾಮಾನುಜನ್ ೫೦-೫೫
 ೨. ಕೆಂಪೇಗೌಡರ ಲಾವಣಿ - ಸಂಗ್ರಹ: ಹೆಚ್.ಎಲ್. ನಾಗೇಗೌಡರು ೫೬-೬೬
 ೩. ಆದಿವಾಸಿ ಜಾನಪದ - ಜಿ.ಶಂ. ಪರಮಶಿವಯ್ಯ ೬೭-೭೭

IV . ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಮಾನವತಾವಾದ ಎದುರಿಸುತ್ತಿರುವ ಬಿಕ್ಕಟ್ಟುಗಳು (ಭಾಗಗಳು)
 - ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ ೭೮-೮೮
 ೨. ಬೆವರಿನ ಮನುಷ್ಯ ಡಾ. ರಾಜಕುಮಾರ್
 - ಪ್ರೊ. ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ ೮೯-೧೦೨
 ೩. ಕನ್ನಡವೇ ನನ್ನ ಧರ್ಮ - ಜಯದೇವಿ ತಾಯಿ ಲಿಗಾಡೆ ೧೦೩-೧೧೦

I ಕಾವ್ಯ ಭಾಗ

೧. ನೆಲಕ್ಕಾರೊಳಂ ಪಂಥಮುಂಟೇ

- ಪಂಪ

ಆಶಯ :

ಅರಿಷಡ್ವರ್ಗಗಳಾದ ಕಾಮ, ಕ್ರೋಧ, ಲೋಭ, ಮೋಹ, ಮದ, ಮತ್ಸರಗಳು ಮನುಷ್ಯನಲ್ಲಿ ಅತಿಯಾದಾಗ ಸುಂದರ ಬದುಕಿಗೆ ಆಸರೆಯಾಗಬೇಕಾದ ಪ್ರೀತಿ, ಪ್ರೇಮ, ದಯೆ, ಕರುಣೆ ಅನುಕಂಪಗಳು ಮರೆಯಾಗುತ್ತವೆ. ಇದರ ಪರಿಣಾಮ ಎಲ್ಲೆಲ್ಲೂ ಅತ್ಯಪ್ಪಿ - ಅಸಹನೆಗಳು ತಾಂಡವವಾಡುತ್ತವೆ. ಬದುಕು ಅರ್ಥಕಳೆದುಕೊಂಡು, ಗೊಂದಲದ ಗೂಡಾಗುತ್ತದೆ ಎಂಬುದನ್ನು 'ಪಂಪ' ತನ್ನ 'ಆದಿಪುರಾಣ'ದ ಭರತ-ಬಾಹುಬಲಿಯ ಪ್ರಸಂಗದಲ್ಲಿ ಭೌತಿಕವಾದ ರಾಜ್ಯ-ಸಂಪತ್ತಿಗಿಂತ ಅಂತರಂಗದ ಶಾಂತಿ-ತೃಪ್ತಿಯೇ ಶ್ರೇಷ್ಠವಾದದ್ದು ಎಂಬುದನ್ನು ಇಲ್ಲಿ ಸಾರಿದ್ದಾನೆ.

ಎನ್ನಣುಗದಮ್ಮನಿಲ್ಲದೆ
ಬಿನ್ನನೆ ಸಾಮ್ರಾಜ್ಯಮಿನಿತುಮಾದೆಹಕಮುಮ
ತೃನ್ನತಿಯಲೆನಗಾತಂ
ಮುನ್ನೆಹಗದೊಡೆಂದು ಬೆಸಸಿಯಟ್ಟಿದನೆನ್ನಂ

ವ|| ಎನೆ ಭರತ ಚಕ್ರವರ್ತಿಯ ದೂತನೆಂಬುದುಂ ಬಾಹುಬಲಿ
ಕುಮಾರಂ ಕೋಪಗರ್ಭಸ್ಥಿತಂಬೆರಸು

ಧನಮೆಂಬುದು ವಿಭುಗೆ ಯಶೋ
ಧನಮದನಂತಳಿಪಿ ಕಳಿಪಿ ಕಿಡೆ ಮಾಡಿದರ್ಧಾ
ತನ ಪಡೆದ ಧನಮದೇತಱ
ಧನಮದಹಿಂ ನಿಧನಮೆಯಿದರ್ ಪಲರರಸರ್

ಪಿರಿಯಣ್ಣಂಗೆಱಗುವುದೇಂ
ಪರಿಭವಮೇ ಕೀಳಿ ನೆತ್ತಿಯೊಳ್ ಬಾಳಂ ನಿ
ನೆರಮೂಳಿ ಚಲದನೆಱಗಿಸ
ಲಿರೆ ಭರತಂಗೆಱಗುವೆಹಕಮಂಜಮೆಯಲ್ಲೇ

ಭರತಂ ಷಟ್‌ಖಂಡಭೂವಲ್ಲಭನೆನೆ ಸಿರಿಯಂ ಗೆಂಟುಕೊಳ್ ಕೇಳ್ವ ರಾಗಂ
ಬೆರಸಿಪೀ ನಣ್ಣೆ ಸಾಲ್ಗುಂ ಕರೆದೊಡೆ ಬೆಸನೇನೆಂಬ ಜೀಯೆಂಬ ದೇವೆಂ
ಬರಸೆಂಬಾಳೆಂಬ ದೈನ್ಯಕ್ಕೆಲವೊ ತನುವನಾನೊಡ್ಡುವಂತಾದಿದೇವಂ
ಪುರುದೇವಂ ದೇವದೇವಂ ಕುಡೆ ಪಡೆದ ನೆಲಕ್ಕಾರೊಳಂ ಪಂಥಮುಂಟೇ

ನೆಗಟ್ಟೇ ಷಟ್‌ಖಂಡ ಭೂಮಂಡಲಮನನಿತುಮಂ ಗೆಲ್ಲಖಂಡಪ್ರತಾಪಂ
ನೆಗಟ್ಟಂತಾಳುಂ ಬಲಂಗಳೆರಸೊದವಿದ ಸಂಗ್ರಾಮಸಂರಂಭದಿಂದಂ
ಬಗೆಯಂ ಪಾಣಪ್ರಿಯಸ್ತ್ರೀಜನತನಯಧನವ್ರಾತದೊಳ್ ಮಾಡದಾರ್ತಾ
ಜಿಗೆ ಬಂದೊಡ್ಡಲೆ ಪೇಟ್ಟಂಗರನಿಕಷದೊಳೆಮ್ಮಂದಮಂ ನೀನೆ ಕಾಣ್ಪೆ

ಕಿಸುಸಂಜೆವೆರಸು ಕಲ್ಲಲೆ
ಪಸರಿಸಿದಪುದೆನಿಸಿ ಕಣ್ಣ ಕೆಂಪುಂ ಭುಕುಟಿ
ಪ್ರಸರಾಂಧಕಾರಮುಂ ದೆಸೆ
ದೆಸೆಗೆಸೆದುವು ಬಾಹುಬಲಿನೃಪಾಸ್ಥಾಯಿಕೆಯೊಳ್

ವ|| ಅನ್ನೆಗಂ ಚಕ್ರವರ್ತಿಯ ದೂತಂ ಸಾಕೇತಪುರಮನೆಯೆವಂದಾಸ್ಥಾನ
ಮಂಟಪದೊಳ್ ಇರ್ದ ಚಕ್ರವರ್ತಿಯಂ ಕಂಡು ಪೊಡೆಮಟ್ಟು

ನಿನಗೀ ಷಟ್ಖಂಡ ಭೂಮಂಡಲಮೆಹಗಿದುದೇಂ ಸಾಲದೇ ಬೇಡದುದ್ದು
ತ್ತನೊಳಿನ್ನೇನೆಂದು ದೇವರ್ಕಡೆಗಣಿಸಿರೆ ಸೌದರ್ಯಮಂ ಕಾದ ಪೆಂಪೀ
ವನಧಿದ್ವೀಪಾಂತರಾಳ ಕ್ಷಿಯೊಳಿಸಗುವಾಕ್ಷೇಪಮಂ ಮಾಣ ನೀಂ ಕ್ರೋ
ಧನನಾಗಲ್ ನಿನ್ನ ತಮ್ಮಂ ನಿನಗೆಱಗನಿದಂ ನಂಬು ರಾಜಾಧಿರಾಜಾ

ವ|| ತಱುವಾಯಿಂ ದೃಷ್ಟಿಯುದ್ಧ ಜಲಯುದ್ಧ ಮಲ್ಲಯುದ್ಧದೊಳ್
ಬಾಹುಬಲಿ ಕುಮಾರಂ ಭರತಚಕ್ರವರ್ತಿಯಂ ಗೆಲಲ್ ಆಗಲ್

ಧರೆಯಂ ಪರ್ಬಿದುರ್ದೀ ಬಾಹುಬಲಿನೃಪಯಶೋದುಂದುಭಿಧ್ವಾನವೆಂಬಂ
ತಿರೆ ದೇವಾನೀಕಿನೀದುಂದುಭಿರವಮರೀವೃಂದಮಾಂಗಲ್ಯಗೇಯಿ
ಸ್ವರದೊಳ್ ಕೈಗೂಡಿ ಪೊಣ್ಣುತ್ತಿರೆ ಮುದಿತಸುರಾನಂದಬಾಷ್ಟ್ಯದಬಿಂದೂ
ತ್ವರಮೆಂಬಂತಾಗೆ ತಂದತ್ತರಲ ಮಳೆಗಳಂ ಪುಷ್ಪಮೇಘಪ್ರತಾನಂ॥

ತನಗಲ್ಲದುದಂ ಮಾಡಿದ
ನಿನಿಸಂ ಚಕ್ರೇಶನೆಂಬ ಕುಲವೃದ್ಧರ ಭೂ
ವನಿತಾಧೀಶರ ನುಡಿಗ
ಳ್ಳೆ ನಾಣ್ಣಿದಂ ಭರತರಾಜನವನತಮಕುಟಂ॥

ಕಳೆದಿಡುವುದೆ ಕಷ್ಟಂ ಭೂ
ತಳರಾಜ್ಯವಿಮೋಹಮಚಿರರುಚಿಸಂಚಳಮಿಂ
ತಳವುಗಿಡಿಸಿದುದು ಮನುಕುಲ
ತಿಳಕನುಮಂ ಖಿಳಮಹೀಶರುಱಿದವರಳವೇ॥

ಸೋದರರೊಳ್ ಸೋದರರಂ
ಕಾದಿಸುವುದು ಸುತನ ತಂದೆಯೊಡೆಯೊಳ್ ಬಿಡದು
ತ್ತಾದಿಸುವುದು ಕೋಪಮನಳ
ವೀ ದೊರೆತನೆ ತೊಡವುರ್ದೆಂತು ರಾಜ್ಯಶ್ರೀಯೊಳ್॥

ಇನಿಯವು ಮೊದಲೊಳ್ ನಂಜಿನ
ಪನಿವೊಲ್ ಬಟಿಕೆಯ್ ಮುಳಿದು ಕೊಂದಿಕ್ಕುವುವಿಂ
ತೆನೆಯೆನೆ ವಿಷಯಸುಖಾಸ್ವಾ
ದನದೊಳ್ ಲಂಪಟರಿದೇಕೆಯೋ ನರಪಶುಗಳ್॥

ಕಿಡುವೊಡಲ ಕಿಡುವ ರಾಜ್ಯದ
ಪಡೆಮಾತುಗೊಳಲ್ಕಮೆನ್ನ ಮೆಯ್ಯಗಿದಪುದೀ
ಗಡೆ ಜೈನದೀಕ್ಷೆಯಂ ಕೊಂ
ಡಡಿಗಿಳಿಸುವೆಂ ಸಮಸ್ತಸುರಸಮುದಯಮಂ॥

ಎಂದಿಂತು ಬಗೆದು ಭರತನ
ನೆಂದಂ ಚಕ್ರೇಶ ಸಿಗ್ಗನುಱಿ ಮುಳಿಸಂ ನೀ
ನೆಂದಿಂಗಂ ಬಿಸುಡೀ ತ
ಮ್ಮಂದಿರೊಳಿಂತಿಂತು ಕಟ್ಟುವರ್ಪುದು ಪೆಂಪೇ॥

ನಿನ್ನೀ ಬೆಸಸಿದ ಚಕ್ರಮ
ದೆನ್ನೀ ದೇಹಾದ್ರಿಯಂ ಗೆಲಲ್ ನೆಹಿಯದು ನೀಂ
ಬಿನ್ನನಿದೇಕಿರ್ಪೆಯದೆಂ
ತೆನ್ನ ಗೆಲಲ್ ವಜ್ರಗಿರಿಯನಾರ್ಕುಮೆ ವಜ್ರಂ

ನೆಲಸುಗೆ ನಿನ್ನ ವಕ್ಷದೊಳೆ ನಿಶ್ಚಳಮೀಭಟಖಡ್ಗಮಂಡಲೋ
ತ್ಪಲವನ ವಿಭ್ರಮಭ್ರಮರಿಯಪ್ಪ ಮನೋಹರಿ ರಾಜ್ಯಲಕ್ಷ್ಮಿ ಭೂ
ವಲಯಮನಯ್ಯನಿತ್ತುದುಮನಾಂ ನಿನಗಿತ್ತೆನಿದೇವುದಣ್ಣ ನೀ
ನೊಲಿದ ಲತಾಂಗಿಗಂ ಧರೆಗಮಾಟಿಸಿದಂದು ನೆಗಟ್ಟಿ ಮಾಸದೇ

ಅವಧರಿಸದೆ ನಿನ್ನೊಳ್ ಪಿರಿ
ದವನಯಮಂ ನೆಗಟ್ಟಿ ದೋಷಮಂ ತಪದೊಳ್ ನೀ
ಗುವೆನಸದಾಗ್ರಹಮಂ ಬಿಸು
ಡುವುದೊರ್ಮೆಗೆ ಮಹಿವುದೆನ್ನ ದುರ್ವಿಳಸನಮಂ

ವ॥ ಎಂದು ಬಾಹುಬಲಿ ಕುಮಾರಂ ತಪಶ್ಚರಣ ನಿಶ್ಚಳನಿಶ್ಚಯ
ಮನನಾದಾಗಳ್

ಮನದೊಳ್ ಮುಂ ಪುದಿದಿರ್ವ ಕೋಪಮನಿತಂ ತೊಳ್ಳಾಗಳೆತ್ತೆತ್ತಗೆ
ಯ್ದಿನಿದಂ ತಮ್ಮನೊಳೆಂಬುದೊಂದುಪಶಮಂ ಕೈಗಣ್ಣಿ ನೀನೊರ್ಬನೈ
ಮನುವಂಶಕ್ಕೆ ಲಲಾಮನಪ್ಪನುಜನೈ ಬೇಡಮ್ಮ ನೀನುಂ ತಪೋ
ವನಮಂ ಸಾರ್ವದುಮಾನದಾರ್ಗ ಮೆಹಿವೆಂ ಮತ್ತಾಜ್ಯಸಾಮ್ರಾಜ್ಯಮಂ

ನಿಜಪಾದಾಂಬುರುಹಕ್ಕೆ ಪಾದ್ಯವಿಧಿಯಂ ನೇತ್ರಾಂಬುವಿಂ ಮಾಡುವ
ಗ್ರಜನತ್ಯುನ್ನತಮಪ್ಪ ಮಸ್ತಕದ ಮೇಗೋರಂತೆ ಪಾಯಾತ್ಮ ಬಾ
ಷ್ಟಜಘಂಗಳಿನಂದು ಬಾಹುಬಲಿ ತನ್ನಿಂದಂ ನಿಧೀಶಂಗೆ ವಂ
ಶಜರಾಜ್ಯಾಭಿಷವೋತ್ಸವಂ ನೆಗಟ್ಟಿದೆಂಬಾಶಂಕೆಯಂ ಮಾಡಿದಂ

ಕವಿ ಪರಿಚಯ

ಪಂಪ : ಈ ಕಾವ್ಯಭಾಗವನ್ನು ಕನ್ನಡದ ಆದಿಕವಿ ಮತ್ತು ನಾಡೋಜನೆಂಬ ಮನ್ನಣೆಗೆ ಪಾತ್ರನಾಗಿರುವ ಪಂಪ ಮಹಾಕವಿಯ ಆದಿಪುರಾಣದಿಂದ ಸಂಗ್ರಹಿಸಿದೆ. ಕವಿ ಕಲಿ ಆಗಿದ್ದ ಪಂಪನ ಕಾಲ ಹತ್ತನೆಯ ಶತಮಾನ. ಪಂಪ ಜೈನಧರ್ಮಕ್ಕೆ ಸೇರಿದವನು ಅರಿಕೇಸರಿಯ ಆಶ್ರಯದಲ್ಲಿದ್ದವನು ಆದಿಪುರಾಣ, ವಿಕ್ರಮಾರ್ಜುನ ವಿಜಯ (ಪಂಪಭಾರತ) ಇವನ ಕೃತಿಗಳು. ವಸ್ತುವಿನಲ್ಲಿ ಆಗಮಿಕ-ಲೌಕಿಕಗಳನ್ನು ನಿರೂಪಣೆಯಲ್ಲಿ ಧರ್ಮ ಕಾವ್ಯಧರ್ಮಗಳನ್ನು ಭಾಷೆಯಲ್ಲಿ ಮಾರ್ಗದೇಶಿಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಮಾರ್ಗ ನಿರ್ಮಿಸಿದ ಹೆಗ್ಗಳಿಕೆ ಇವನದು.

ಕಠಿಣ ಪದಗಳ ಅರ್ಥ :

ಚಕ್ರ-ಚಕ್ರತತ್ವ; ಅಳಿಪಿ-ಆಶೆಪಟ್ಟು; ಕೀಳಿ-ಊರಿ-ಚುಚ್ಚಿ; ಬಾಳಂ-ಖಡ್ಗವನ್ನು; ಗೆಂಟರೊಳ್-ದೂರದಿಂದ; ಪುರದೇವ-ಆದಿದೇವ ಭರತ ಬಾಹುಬಲಿಯರ ತಂದೆ; ನಿಕಷ-ಬರೆಗಲ್ಲು; ಭುಕುಟಿ-ಹುಬ್ಬು; ಸೌದರ್ಯ-ಸೋದರತೆ; ಧ್ವಾನ-ಧ್ವನಿ; ಅರಲ ಮಳೆ-ಹೂಮಳೆ; ವಕ್ಷ-ಹೃದಯ; ಆಟಿಸು-ಆಸೆಪಡು; ಅಸದಾಗ್ರಹ-ಅಸತ್ ಅಗ್ರಹ, ಮನಃಕಷಾಯ; ತೂಳ್-ಬಿಸುಟು; ಉಪಶಮ-ಉಪಶಾಂತಿ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಅಧಿಕಾರ ರಾಜಕಾರಣದ ಮುಖಗಳನ್ನು ಈ ಸಂಘರ್ಷ ಹೇಗೆ ಪ್ರತಿನಿಧಿಸುತ್ತದೆ?
೨. ಭರತಂಗರಗುವೆರಕ ಮಂಜುಮೆಯಲ್ಲೇ - ಈ ಮಾತಿನ ಆಶಯವನ್ನು ವಿಸ್ತರಿಸಿ.
೩. ನೆಲಸುಗೆ ನಿನ್ನ ವಕ್ಷದೊಳೆ... ಈ ಪಠ್ಯ ಭಾಗದಲ್ಲಿ ವ್ಯಕ್ತವಾದ ವಿಭಿನ್ನ ಭಾವಗಳನ್ನು ಪರಿಭಾವಿಸಿ.
೪. ಸಮಕಾಲೀನ ರಾಜಕಾರಣದಲ್ಲಿ ಭರತ-ಬಾಹುಬಲಿ ಪ್ರಸಂಗವನ್ನು ಹೋಲುವ ಸನ್ನಿವೇಶಗಳನ್ನು ಯಾವ ರೀತಿ ವಿಮರ್ಶಿಸುವಿರಿ?
೫. ಕೊನೆಗೂ ಗೆಲ್ಲುವುದು ಯಾವುದು? ಅಧಿಕಾರವೋ, ಬಾಂಧವ್ಯವೋ? ಇದರ ಮೂಲಕ ಪಂಪ ನೀಡುವ ಸಂದೇಶವೇನು? ನಾವು ಪ್ರಸ್ತುತದಲ್ಲಿ ಅದನ್ನು ಒಪ್ಪಬಹುದೇ?
೬. ಬಾಹುಬಲಿಗೆ ವೈರಾಗ್ಯ ಉಂಟಾದ ಸನ್ನಿವೇಶವನ್ನು ವಿವರಿಸಿ.

*

೨. ವಚನಗಳು

ಆಶಯ :

ಈ ಜಗತ್ತಿನಲ್ಲಿ ಸುಂದರವಾದ ಜೀವನಸಾಗಿಸುವ ಶಿಕ್ಷಣವನ್ನು ಪ್ರಕೃತಿ ತನ್ನ ಚಟುವಟಿಕೆಗಳ ಮೂಲಕ ಮಾಗದರ್ಶನ ನೀಡುತ್ತಿದೆ ಅದನ್ನು ಸೂಕ್ಷ್ಮವಾಗಿ ಗ್ರಹಿಸಬೇಕಷ್ಟೆ. ಆಗ ಮಾತ್ರ ವೈಶಾಲ್ಯತೆ ಮೂಡುತ್ತದೆ ನಿರ್ವಿವೇಕತೆ ಬೆಳಗುತ್ತದೆ ಹಾಗೂ ಭೇದಭಾವಗಳು ಮರೆಯಾಗುತ್ತವೆ.

ಈ ಭೂಮಿಯಲ್ಲಿ ವಾಸಿಸುವ ಹಕ್ಕು ಎಲ್ಲ ಜೀವಿಗಳಿಗೂ ಇದೆ. ಇಲ್ಲಿ ಯಾರೂ-ಯಾವುದೂ ಶಾಶ್ವತವಲ್ಲ, ಇರುವಷ್ಟುಕಾಲ ಎಲ್ಲರೊಳಗೆ ಒಂದಾಗಿ ಬದುಕಿದರೆ ಅದೇ ಸ್ವರ್ಗ ಎಂಬುದನ್ನು 12ನೇ ಶತಮಾನದ ಶರಣರು ತಮ್ಮ ಜೀವನಾನುಭವ ಹಾಗೂ ಆಧ್ಯಾತ್ಮಿಕ ಚಿಂತನೆಗಳ ಮೂಲಕ ಜನಸಾಮಾನ್ಯರನ್ನು ಎಚ್ಚರಿಸುವ ಕ್ರಾಂತಿಕಾರಿ ಚಿಂತಕರು ಹಾಗೂ ಸಮಾಜ ಸುಧಾರಕರಾಗಿದ್ದಾರೆ.

ಬಸವಣ್ಣ

ಹಬ್ಬಕ್ಕೆ ತಂದ ಹರಕೆಯ ಕುರಿ
ತೋರಣಕ್ಕೆ ತಂದ ತಳಿರ ಮೇಯಿತ್ತು
ಕೊಂದಹರೆಂಬುದನರಿಯದೆ
ಬೆಂದ ಒಡಲ ಹೊರೆವುತ್ಲಲ್ಲದೆ
ಅಂದಂದೆ ಹುಟ್ಟಿತ್ತು, ಅಂದಂದೆ ಹೊಂದಿತ್ತು
ಕೊಂದವರುಳಿದರೆ ಕೂಡಲಸಂಗಮದೇವ

ಕಾಲಲಿ ಕಟ್ಟಿದ ಗುಂಡು, ಕೊರಳಲಿ ಕಟ್ಟಿದ ಬೆಂಡು,
ತೇಲಲೀಯದು ಗುಂಡು, ಮುಳುಗಲೀಯದು ಬೆಂಡು,
ಇಂತಪ್ಪ ಸಂಸಾರ ಶರಧಿಯ ದಾಂಟಿಸಿ
ಕಾಲಾಂತಕನೆ ಕಾಯೋ, ಕೂಡಲಸಂಗಮದೇವಯ್ಯಾ

ಹಾವಾಡಿಗನು ಮೂಕೊರತಿಯು; ತನ್ನ ಕೈಯಲ್ಲಿ ಹಾವು,
ಮಗನ ಮದುವೆಗೆ ಶಕುನವ ನೋಡಹೋಹಾಗ
ಇದಿರಲೊಬ್ಬ ಮೂಕೊರತಿಯ ಹಾವಾಡಿಗನ ಕಂಡು,
ಶಕುನ ಹೊಲ್ಲೆಂಬ ಚದುರನ ನೋಡಾ.
ತನ್ನ ಸತಿ ಮೂಕೊರತಿ, ತನ್ನ ಕೈಯಲ್ಲಿ ಹಾವು,
ತಾನು ಮೂಕೊರೆಯ.
ತನ್ನ ಭಿನ್ನವನರಿಯದೆ ಅನ್ಯರನೆಂಬ
ಕುನ್ನಿಯನೇನೆಂಬೆ ಕೂಡಲಸಂಗಮದೇವಾ.

ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ

ಕಾಯಕದಲ್ಲಿ ನಿರತನಾದಡೆ, ಗುರುದರ್ಶನವಾದಡೂ ಮರೆಯಬೇಕು,
ಲಿಂಗಪೂಜೆಯಾದಡೂ ಮರೆಯಬೇಕು,
ಜಂಗಮ ಮುಂದೆ ನಿಂದಿದ್ದಡೂ ಹಂಗ ಹರಿಯಬೇಕು.
ಕಾಯಕವೆ ಕೈಲಾಸವಾದ ಕಾರಣ.
ಅಮರೇಶ್ವರಲಿಂಗವಾಯಿತ್ತಾದಡೂ ಕಾಯಕದೊಳಗು.

ಕಟ್ಟಿಗೆ ಕಸ ನೀರು ತಂದು,
ಸತ್ಯರ ಮನೆಯಲ್ಲಿ ಒಕ್ಕುದನೀಸಿಕೊಂಡು,
ತನ್ನ ಕೃತ್ಯ ತಪ್ಪದೆ ಒಕ್ಕುದ ಕೊಂಡು,
ಸತ್ಯನಾಗಿಪ್ಪ ಭಕ್ತನಂಗವೆ ಅದು ಅಮರೇಶ್ವರಲಿಂಗದ ಸಂಗ.

ಅಮುಗೆ ರಾಯಮ್ಮ

ಕಾದಹಾಲ ನೋಣ ಮುಟ್ಟಬಲ್ಲದೆ?
ಕಿಚ್ಚಿನೊಳಗಣ ಗುಂಡ ಬೆಕ್ಕು ಮುಟ್ಟಬಲ್ಲದೆ?
ಮರುಜವಣಿಯ ಕಡ್ಡಿ ಕಯ್ಯಲಿದ್ದವಂಗೆ ಸರ್ಪ ಕಡಿಯಬಲ್ಲದೆ?
ಈ ತ್ರಿವಿಧವನರಿದವಂಗೆ ಹಿಂದೆ ಶಂಕೆಯಿಲ್ಲ, ಮುಂದೆ ಭೀತಿಯಿಲ್ಲ
ಕಳಂಕು ಇಲ್ಲದೆ ಅಮುಗೆಶ್ವರಲಿಂಗವು ಅಪ್ಪಿಕೊಂಡಿತ್ತು.
ಎನ್ನ ಕಣ್ಣೊಳಗಣ ಕಟ್ಟಿಗೆಯ ಮುರಿವರನಾರನೂ ಕಾಣೆ,
ಎನ್ನ ಕಾಲೊಳಗಣ ಮುಳ್ಳ ತೆಗೆವರನಾರನೂ ಕಾಣೆ,
ಎನ್ನ ಅಂಗದಲ್ಲಿಪ್ಪ ಅಹಂಕಾರವ ಸುಡುವರನಾರನೂ ಕಾಣೆ,
ಎನ್ನ ಮನದಲ್ಲಿಪ್ಪ ಮಾಯಾಪ್ರಪಂಚುವ

ಕೆಡಿಸುವವರನಾರನೂ ಕಾಣೆನಯ್ಯಾ,
ಆದ್ಯರ, ವೇದ್ಯರ ವಚನಗಳಿಂದ
ಅರಿದೆವೆಂಬವರು ಅರಿಯಲಾರರು ನೋಡಾ,
ಎನ್ನ ಕಣ್ಣೊಳಗಣ ಕಟ್ಟಿಗೆಯ ನಾನೆ ಮುರಿಯಬೇಕು,
ಎನ್ನ ಕಾಲೊಳಗಣ ಮುಳ್ಳ ನಾನೆ ತೆಗೆಯಬೇಕು,
ಎನ್ನ ಅಂಗದಲ್ಲಿಪ್ಪ ಅಹಂಕಾರವ ನಾನೆ ಸುಡಬೇಕು,
ಎನ್ನ ಮನದಲ್ಲಿಪ್ಪ ಮಾಯಾಪ್ರಪಂಚುವ ನಾನೆ ಕಳೆಯಬೇಕು,
ಅಮುಗೆಶ್ವರಲಿಂಗವ ನಾನೆ ಅರಿಯಬೇಕು.

ಕವಿ ಪರಿಚಯ

ಬಸವಣ್ಣ : ಬಸವಣ್ಣನವರು ಹನ್ನೆರಡನೆಯ ಶತಮಾನದ ಸಮಾಜೋ-
ಧಾರ್ಮಿಕ ಆಂದೋಲನದ ಕೇಂದ್ರ ವ್ಯಕ್ತಿ. ವಿಜಾಪುರ ಜಿಲ್ಲೆಯ ಬಾಗೇವಾಡಿ
ಇವರ ಜನ್ಮ ಸ್ಥಳ, ತಂದೆ ಮಾದರಸ, ತಾಯಿ ಮಾದಲಾಂಬಿಕೆ, ಕಲಚೂರಿ
ರಾಜವಂಶದ ಬಿಜ್ಜಳನ ಆಸ್ಥಾನದಲ್ಲಿ ಮಹಾಮಂತ್ರಿಯಾಗಿದ್ದರು. ಮೌಲಿಕವಾದ
ವಚನ ರಚನೆಯ ಮೂಲಕ ಕನ್ನಡ ಸಾಹಿತ್ಯವನ್ನು ಶ್ರೀಮಂತಗೊಳಿಸಿದವರು.
ಏಕದೇವೋಪಾಸನೆ, ಅಸ್ಪೃಶ್ಯತಾ ನಿವಾರಣೆ, ವೃತ್ತಿಮಾರ್ಗದ, ವ್ಯಕ್ತಿಗೌರವ, ಸ್ತ್ರೀ
ಸಮಾನತೆ, ಕಾಯಕ ಮಹತ್ವ, ಮೌಢ್ಯ ಖಂಡನೆ, ಮಾನವೀಯತೆ - ಈ ಮೊದಲಾದ
ಜೀವನ ಮೌಲ್ಯಗಳನ್ನು ತಮ್ಮ ವಚನಗಳ ಮೂಲಕ ಅಭಿವ್ಯಕ್ತಿಸಿದ್ದಾರೆ.
'ಕೂಡಲಸಂಗಮದೇವ' ಇವರ ವಚನಗಳ ಅಂಕಿತ.

ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ (ಕ್ರಿ.ಶ. ೧೧೬೦) : ೧೨ನೇ ಶತಮಾನದ
ವಚನಕಾರನಾದ ಈತ ರಾಯಚೂರು ಜಿಲ್ಲೆ ಅಮರೇಶ್ವರದವನು. ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ
ಇವನ ಬಾಳಸಂಗಾತಿ. ಬಸವಣ್ಣನವರ ಚಳವಳಿಗೆ ಆಕರ್ಷಿತನಾಗಿ ಕಲ್ಯಾಣಕ್ಕೆ
ಬಂದನು. ಅಕ್ಕಿ ಆಯುವ ಕಾಯಕ ಮಾಡುತ್ತಿದ್ದ ಈತನು ಅಮರೇಶ್ವರ ಲಿಂಗ
ಅಂಕಿತದಲ್ಲಿ ವಚನಗಳನ್ನು ಬರೆದಿದ್ದಾನೆ. ಶರಣ ಲೋಕದಲ್ಲಿ ವಿಖ್ಯಾತವಾಗಿರುವ
ಕಾಯಕವೇ ಕೈಲಾಸವೆಂಬ ಅರ್ಥಪೂರ್ಣವಾದ ಸಂದೇಶವನ್ನು ಕೊಟ್ಟ ಈತ
ಅದೇ ರೀತಿ ಬದುಕಿ ಸದಾಕಾಲಕ್ಕೂ ಆದರ್ಶವಾಗಿದ್ದಾನೆ.

ಅಮುಗೆ ರಾಯಮ್ಮ (೧೧೬೦) : ಶಿವಶರಣರು ತಮ್ಮ ವೈಚಾರಿಕ
ಪ್ರಜ್ಞೆಯಿಂದ ಸಾಮಾಜಿಕ ಕಳಕಳಿ ಹೊಂದುವ ಮೂಲಕ ಸಮಾಜ ಸುಧಾರಕರಾದರು.
ಕಾಯಕ ತತ್ವವನ್ನೇ ಅಡಿಗಲ್ಲಾಗಿಸಿಕೊಂಡವರು. ಇದಕ್ಕೆ ಗಂಡು-ಹೆಣ್ಣು ಎಂಬ
ಸಾಮಾಜಿಕ ವರ್ಗೀಕರಣಕ್ಕೂ ಚೌಕಟ್ಟನ್ನೂ ಮೀರಿದ ಫಲವೇ ಅಕ್ಕಮಹಾದೇವಿ,

ಅಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ, ದುಗ್ಗಲೆ, ಅಕ್ಕನಾಗಮ್ಮ, ಸತ್ಯಕ್ಕೆ ಮುಕ್ತಾಯಕ್ಕೂ ಮುಂತಾದ ವಚನಕಾರ್ತಿಯರು ವಚನ ರಚನೆಗೆ ಮುಂದಾದರು ಅವರಲ್ಲಿ ಅಮುಗೆ ರಾಯಮ್ಮನೂ ಒಬ್ಬರು ಈಕೆ ಸೊನ್ನಲಿಗೆಯವಳು (ಈಗಿನ ಸೊಲ್ಲಾಪುರ) ಇವಳ ಪತಿ ಅಮುಗೆ ದೇವಯ್ಯ, ನೇಯ್ಗೆ ಇವರ ಕಾಯಕ. ಇವಳ ಅಂಕಿತ ಅಮುಗೆಶ್ವರ. ಇಲ್ಲಿನ ವಚನಗಳಲ್ಲಿ ಆಧ್ಯಾತ್ಮ, ವಿಡಂಬನೆ, ನಿಷ್ಕಾರಗಳನ್ನೂ ಕಾಣಬಹುದು.

ಅರ್ಥಗಳು :

ಕಾಲಿನ ಗುಂಡು = ಸಂಕಷ್ಟ ಹಾಗೂ ದುಃಖ, ಖಿದಸಂಕೇತ; ಬೆಂಡು = ಸುಖದ ಸಂಕೇತ, ಅಂದರೆ ಸಂಸಾರವು ಕಷ್ಟ-ಸುಖಗಳ ಹಾಗೂ ವ್ಯಾಮೋಹಗಳ ಬಂಧನ.

ತ್ರಿವಿಧ ಕಾದಹಾಲು = ಸ್ವಚ್ಛ, ಶುದ್ಧನಾದ ಗುರು; ಕಿಚ್ಚು = ಶಾಖ ಮತ್ತು ಬೆಳಕನ್ನು ಗರ್ಭೀಕರಿಸಿಕೊಂಡಿರುವ ಲಿಂಗ. (ಗುಂಡು); ಮರುಜವಣಿ = ಚೈತನ್ಯ ಸ್ವರೂಪ ಜಂಗಮ; ನೋಣ, ಬೆಕ್ಕು, ಸರ್ಪ = ಕ್ಷುದ್ರ ವ್ಯಕ್ತಿತ್ವದ ಸಂಕೇತ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಸಂಸಾರ ಬಂಧನವನ್ನು ಕುರಿತು ಬಸವಣ್ಣನವರ ಚಿಂತನೆಯನ್ನು ವಿವರಿಸಿ.
೨. ಶಕುನಗಳಂತಹ ಮೌಢ್ಯದ ಬಗೆಗೆ ಬಸವಣ್ಣನವರು ಹೇಗೆ ಪ್ರತಿಕ್ರಿಯಿಸಿದ್ದಾರೆ?
೩. ಬಸವಣ್ಣನವರ ವೈಚಾರಿಕ ಪ್ರಜ್ಞೆ ಕುರಿತು ಬರೆಯಿರಿ.
೪. ತ್ರಿವಿಧಗಳನ್ನು ಕುರಿತಂತೆ ರಾಯಮ್ಮನ ಅಭಿಪ್ರಾಯಗಳನ್ನು ಬರೆಯಿರಿ.
೫. ತನ್ನನ್ನು ತಾನು ಅರಿಯುವ ಬಗೆಯನ್ನು ರಾಯಮ್ಮ ಹೇಗೆ ವಿಶ್ಲೇಷಿಸಿದ್ದಾಳೆ?
೬. ಕಾಯಕದ ಮಹತ್ವ ಹಾಗೂ ಶ್ರೇಷ್ಠತೆಯನ್ನು ಮಾರಯ್ಯ ಹೇಗೆ ವಿಮರ್ಶಿಸಿದ್ದಾನೆ.
೭. ಮರುಜವಣಿ ಎಂದರೆ ಯಾವುದು?

*

೩. ದೇವರು ರುಜು ಮಾಡಿದನು

- ಕುವೆಂಪು

ಆಶಯ :

ಕವಿಯ ಮನಸ್ಸು ಸದಾ ಅಂತರಂಗದ ಜಗತ್ತು ಮತ್ತು ಬಾಹ್ಯದೊಂದಿಗೆ ಅವಿನಾಭಾವ ಸಂಬಂಧವನ್ನು ಹೊಂದಿರುತ್ತದೆ. ಅಮೂರ್ತವಾದ ಭಾವನೆಗಳಿಗೆ ಉಪಮೆ, ರೂಪಕಗಳ ಮೂಲಕ ಅಕ್ಷರಗಳಲ್ಲಿ ಹಿಡಿದಿಟ್ಟು ಕವಿ ಮೂರ್ತರೂಪಗೊಳಿಸುತ್ತಾನೆ. ಮನಸ್ಸು ಭಾವಪರವಶವಾದಾಗ ಪ್ರತಿಭೆಯ ಬೆಳಕಿನ ಸಹಾಯದೊಂದಿಗೆ ಕಲ್ಪನೆಯ ವಿಲಾಸದಲ್ಲಿ ತೊಡಗಿ ಕಾವ್ಯಸೃಷ್ಟಿಗೆ ಮುಂದಾಗುತ್ತಾನೆ. ಅಂತಹ ಸುಂದರವಾದ ಭಾವಗೀತೆಯೇ, ಕುವೆಂಪು ಅವರ 'ದೇವರು ರುಜು ಮಾಡಿದನು' ಎಂಬ ಕಾವ್ಯ ನಮಗೆ ಕಟ್ಟಿಕೊಡುತ್ತದೆ.

ದೇವರು ರುಜು ಮಾಡಿದನು;
ರಸವಶನಾಗುತ ಕವಿ ಅದ ನೋಡಿದನು!

ಬಿತ್ತರದಾಗಸ ಹಿನ್ನೆಲೆಯಾಗಿರೆ
ಪರ್ವತದತ್ತರ ಸಾಲಾಗೆಸದಿರೆ
ಕಿಕ್ಕಿರಿದಡವಿಗಳಂಚಿನ ನಡುವೆ
ಮೆರೆದಿರೆ ಜಲಸುಂದರಿ ತುಂಗೆ
ದೇವರು ರುಜು ಮಾಡಿದನು,
ರಸವಶನಾಗುತ ಕವಿ ಅದ ನೋಡಿದನು!

ನದಿ ಹರಿದಿತ್ತು; ಬನ ನಿಂತಿತ್ತು;
ಬಾನ್ ನೀಲಿಯ ನಗೆ ಬೀರಿತ್ತು.
ನಿರ್ಜನ ದೇಶದ ನೀರವ ಕಾಲಕೆ
ಖಿಗರವ ಪುಲಕಂ ತೋರಿತ್ತು.
ಹೂಬಿಸಿಲಲಿ ಮಿರುಗಿರೆ ನಿರಿವೊನಲು
ಮೊರೆದಿರೆ ಬಂಡೆಗಳಲಿ ನೀರೊದಲು
ರಂಜಿಸೆ ಇಕ್ಕಲದಲಿ ಹೊಮ್ಮಳಲು

ಸಿಬ್ಬಲು ಗುಡ್ಡೆಯ ಹೊಳೆಯಲಿ ಮಿಯುತ
ಕವಿಮನ ನಾಕದಿ ನೆಲಿಸಿತ್ತು;
ಮಧು ಸೌಂದರ್ಯದ ಮಧುರ ಜಗತ್ತು
ಹೃದಯ ಜಿಹ್ವೆಗೆ ಜೇನಾಗಿತ್ತು!

ದೃಶ್ಯದಿಗಂತದಿನೊಮ್ಮೆಯೆ ಹೊಮ್ಮಿ
ಗಿರಿವನ ಪಟದಾಕಾಶದಲಿ
ತೇಲುತ ಬರಲೆ ಬಲಾಕಪಂಕ್ತಿ
ಲೇಖನ ರೇಖಾನ್ಯಾಸದಲಿ,
ಅವಾಜ್ಜಿಯ ಛಂದಃಪ್ರಾಸದಲಿ,
ಸೃಷ್ಟಿಯ ರಚನೆಯ ಕುಶಲಕೆ ಚಂದಕೆ
ಜಗದಚ್ಚರಿಯಂದದ ಒಪ್ಪಂದಕೆ
ಚಿರಚೇತನ ತಾನಿಹೆನೆಂಬಂದದಿ
ಬೆಳ್ಳಕ್ಕಿಯ ಹಂತಿಯ ಆ ನೆವದಿ
ದೇವರು ರುಜು ಮಾಡಿದನು:
ರಸವಶನಾಗುತ ಕವಿ ಅದ ನೋಡಿದನು!"*

ಕವಿ ಪರಿಚಯ

ಕುವೆಂಪು (೧೯೦೪-೧೯೯೪) : ಕನ್ನಡ ನವೋದಯ ಕಾಲದ ಹರಿಕಾರರಲ್ಲಿ ಪ್ರಮುಖರಾದ ಕುವೆಂಪು ಅವರು ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯದ ಶ್ರೀಮಂತಿಕೆಯನ್ನು ಹೆಚ್ಚಿಸಿ ಹೊಸ ಮೌಲ್ಯಗಳನ್ನು ರೂಪಿಸಿಕೊಟ್ಟವರು. ಮೈಸೂರು ವಿ.ವಿ.ಯಲ್ಲಿ ಕನ್ನಡ ಪ್ರಾಧ್ಯಾಪಕರಾಗಿ, ಕುಲಪತಿಗಳಾಗಿ ಸೇವೆಸಲ್ಲಿಸಿದ್ದಾರೆ.

ಸಾಮಾಜಿಕ ಕಳಕಳಿ ಹಾಗೂ ವೈಚಾರಿಕ ಪ್ರಜ್ಞೆಯ ಶ್ರೀಯುತರು ಪ್ರಕೃತಿಪ್ರೇಮಿ. ಅವರ ಕಾವ್ಯ, ಕತೆ, ಕಾದಂಬರಿಗಳಲ್ಲಿ ಸಹಜವಾಗಿ ನಿಸರ್ಗ ವರ್ಣನೆ ಇರುತ್ತದೆ. ನವಿಲು, ಕಲಾಸುಂದರಿ, ಪಕ್ಷಿಕಾಶಿ, ಅನಿಕೇತನ, ಕೋಗಿಲೆ ಮತ್ತು ಸೋವಿಯತ್‌ರಷ್ಯಾ ಮುಂತಾದ ಕಾವ್ಯಕೃತಿಗಳು ಹಾಗೂ ಕಾನೂರು ಸುಬ್ಬಮ್ಮ ಹೆಗ್ಗಡತಿ, ಮಲೆಗಳಲ್ಲಿ ಮದುಮಗಳು, ಕಾದಂಬರಿಗಳಲ್ಲದೆ ಶೂದ್ರತಪಸ್ವಿ, ಬೆರಳೆಗೆಕೊರಳ್, ರಕ್ಷಾಕ್ಷಿ ಮುಂತಾದ ನಾಟಕಗಳು, ಲೇಖನಗಳು, ಪ್ರಬಂಧಗಳನ್ನು ರಚಿಸುವ ಮೂಲಕ ಸಾಹಿತ್ಯ ಸರಸ್ವತಿಯ ಆರಾಧಕರಾಗಿದ್ದಾರೆ.

ಇವರ 'ಶ್ರೀರಾಮಾಯಣ ದರ್ಶನಂ' ಕೃತಿಗೆ 'ಜ್ಞಾನಪೀಠ' ಪ್ರಶಸ್ತಿ ಲಭಿಸಿದೆ. ಹಾಗೂ ಇವರ ಸಾಹಿತ್ಯ ಮತ್ತು ಸಾಂಸ್ಕೃತಿಕ ಕೊಡುಗೆಗಳನ್ನು ಗುರ್ತಿಸಿ ಕೇಂದ್ರಸರ್ಕಾರವು 'ರಾಷ್ಟ್ರಕವಿ', 'ಪದ್ಮಭೂಷಣ' ಪ್ರಶಸ್ತಿ-ಪುರಸ್ಕಾರಗಳನ್ನು ನೀಡಿ ಗೌರವಿಸಿದೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಪ್ರಕೃತಿಯ ಸೌಂದರ್ಯ ಕವಿಯನ್ನು ಕೌತುಕಗೊಳಿಸಿದ ಬಗೆಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ?
೨. ಬೆಳ್ಳಕ್ಕಿಗಳ ಸಾಲನ್ನು ಕಂಡ ಕವಿಯ ಮನಸ್ಸಿಗೆ ಮೂಡಿದ ಭಾವವೇನು?
೩. ಭೂಮಿ-ಆಗಸಗಳ ಸೌಂದರ್ಯ ಕುರಿತು ನಿಮ್ಮ ಮಾತುಗಳಲ್ಲಿ ಬರೆಯಿರಿ.

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೪. ಕವನ ಹುಟ್ಟುವ ಸಮಯ.

- ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ

ಆಶಯ :

ಬದುಕಿನ ಅನುಭವಗಳಿಗೆ ಪ್ರತಿಭೆ ಬೆಳಕಾದಾಗ ಹೊಸ-ಹೊಸಚಿಂತನೆಗಳು ಅರಳಿ ಮಾತು-ಮಾತು ಮಧಿಸಿದಾಗಲೇ ಕಾವ್ಯ ಸೃಷ್ಟಿಯಾಗುತ್ತದೆ. ಎಂಬುದನ್ನೇ "ಪ್ರಜ್ಞಾನವನವೋನೈಶ ಶಾಲಿನಿ" ಎನ್ನುತ್ತೇವೆ. ಅಮೂರ್ತವಾದ ಭಾವನೆಗಳನ್ನು ಕವಿಯು, ಪ್ರತಿಮೆ-ಸಂಕೇತಗಳನ್ನು ಬಳಸಿಕೊಂಡು ತನ್ನ ಶಬ್ದಭಂಡಾರದ ಮೂಲಕ ಹಿಡಿದಿಟ್ಟಾಗಲೇ ಭಾವಗೀತೆಯಾಗಿರುತ್ತದೆ, ಎಂಬುದನ್ನು ಆಂಗ್ಲಕವಿ 'ವರ್ಡ್ಸ್‌ವರ್ತ್' "poetry is the spontaneous overflow of powerful feelings" - ಎಂದು ಕಾವ್ಯಸೃಜನೆಯ ತತ್ವವನ್ನು ಹೇಳಿದ್ದಾನೆ.

ಬಿದಿರ ತಡಿಕೆಯ ಹಿಂದೆ ಬಿಚ್ಚಲಾಗದ ಕಣ್ಣು
'ಕವನ ಹುಟ್ಟಿತೆ?' ಎಂದು ಕೇಳುತ್ತಿದೆ.
ನಾನೀಗ ತುಟಿಯಂಚಿನಲ್ಲಿ ಹೇಳಿದ್ದಿಷ್ಟೆ:
ಇನ್ನೊಂದು ದಿವಸ ಕಾದರೆ ನಷ್ಟವೆ?

ಅನುಭವದ ಆಯ್ಕೆ ಮುಗಿದಿತ್ತು. ಒದಗಿರಲಿಲ್ಲ
ತಕ್ಕಂಥ ಮಾತು. ಕಾಯುತ್ತ ನಿಂತೆ.
ಅಬ್ಬರಗಳನ್ನು ದಾಟಿದ ಗಟ್ಟಿ ಪಂಕ್ತಿಗಳ
ಸಹಜ ಸಂಚಾರಗಳ ಕನಸ ಕಂಡೆ.

ಆಳದನುಭವವನ್ನು ಮಾತು ಕೈಹಿಡಿದಾಗ,
ಕಾವು ಬೆಳಕಾದಾಗ ಒಂದು ಕವನ.
ನಾನು ಬಯಲಿಗೆ ಬಂದು ಕಾದು ನಿಂತಿದ್ದೇನೆ;
ಬರುವದಿದೆ ಸರಿಯಾದ ವರ್ತಮಾನ.

ಇಂಥ ಅಂಗಡಿಯಲ್ಲಿ ಈ ಮಾತಿಗಷ್ಟೆ ಬೆಲೆ
ಎನ್ನುವುದು ಮೊದಲು ಗೊತ್ತಾಗಲಿಲ್ಲ.

ಒಂದೊಂದು ಮಾತಿಗೊಂದೊಂದು ಇತಿಹಾಸವಿದೆ;
ನಾನು ಬೇರಿನ ತನಕ ಹೋಗಲಿಲ್ಲ.

ಕಾಯುವುದು ಕಷ್ಟವೂ ಅಲ್ಲ. ನಕ್ಷತ್ರಗಳು
ಅದಿಯಿಂದಲೂ ಹೀಗೆ ಕಾಯುತ್ತಿವೆ.
ಕವನ ಹುಟ್ಟುವ ಸಮಯದಲ್ಲಿ ನನ್ನಿಂದಲೇ
ಆಗಬೇಕಾಗಿದ್ದಲ್ಲಿ ನೂರಾರಿವೆ-

ನನ್ನ ತೊಡಕುಗಳನ್ನೆ ಅರಿಯದೆ ಪರಿಧಾವಿ
ಧಾವಿಸುತ್ತಿದೆ ತನ್ನ ಶಿಶಿರದೆಡೆಗೆ.
ಅಶರೀರ ಭಾವಕ್ಕೆ ಇಷ್ಟರೂಪವ ತೊಡಿಸಿ
ಕಳಿಸಿ ಕೊಡಲಾದೀತೆ ನಾಳೆಯೊಳಗೆ?

ಕವಿ ಪರಿಚಯ

ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ : ಮಂಡ್ಯ ಜಿಲ್ಲೆ ಕಿಕ್ಕೇರಿಯಲ್ಲಿ ೧೯೧೫ರಂದು ಜನಿಸಿದ ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿಯವರು, ಬೆಂಗಳೂರಿನ ಸೆಂಟ್ರಲ್ ಕಾಲೇಜಿನಲ್ಲಿ ಬಿ.ಎ. ವ್ಯಾಸಂಗ ಮಾಡಿ, ಸರ್ಕಾರಿ ಸೇವೆಗೆ ಆಯ್ಕೆಯಾದರು. ಮಲ್ಲಿಗೆ ಮನಸ್ಸಿನ ಕೆ.ಎಸ್.ನ. ಅವರು ನವಿರಾದ ಪ್ರೀತಿ, ಪ್ರೇಮ, ಪ್ರಣಯ ಹಾಗೂ ದಾಂಪತ್ಯದ ಅನುಭವಗಳ ಫಲಕುಗಳನ್ನು ತಮ್ಮ ಕಾವ್ಯದಲ್ಲಿ ಪ್ರತಿಬಿಂಬಿಸಿದವರು. ನವ್ಯಸಾಹಿತ್ಯದ ಆಶಯಗಳನ್ನೊಳಗೊಂಡ ಇವರ ಪ್ರಮುಖ ಕಾವ್ಯಗಳೆಂದರೆ, ಮೈಸೂರು ಮಲ್ಲಿಗೆ, ದೀಪದ ಮಲ್ಲಿ, ತೆರೆದ ಬಾಗಿಲು, ಶಿಲಾಲತೆ, ಮುಂತಾದುವು.

ಪ್ರಶ್ನೆಗಳು :

೧. ಕವನ ಹುಟ್ಟಲು ಅಗತ್ಯವಾದ ಪರಿಕರ ಮತ್ತು ಸಮಯವನ್ನು ಕವಿ ಹೇಗೆ ವಿಶ್ಲೇಷಿಸಿದ್ದಾರೆ?
೨. ಅನುಭವ ಮತ್ತು ಶಬ್ದಸಂಪತ್ತಿನ ಅವಿನಾಭಾವ ಸಂಬಂಧ ಕುರಿತು ವಿವರಿಸಿ?
೩. ಭಾವಕ್ಕೆ ತಕ್ಕ ಪದ ಮತ್ತು ಅರ್ಥಗಳನ್ನು ಕುರಿತಂತೆ ಕವಿ ಹೇಗೆ ಹೇಳಿದ್ದಾರೆ?
೪. ಅಮೂರ್ತಭಾವವನ್ನು ಮೂರ್ತರೂಪಗೊಳಿಸುವ ಬಗೆಯನ್ನು ಕವಿಯ ಮಾತಿನಲ್ಲಿ ಬರೆಯಿರಿ.
೫. ಕವನ ಹುಟ್ಟುವ ಬೆರಗು ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಪ್ರಕಟವಾಗಿದೆ ವಿವರಿಸಿ.

ಪರಿವಿಡಿ

I. ಕಾವ್ಯ ಭಾಗ

೧. ಸಂಧಿಮಾಟ್ಟುದುತ್ತಮ ಪಕ್ಷಂ - ರನ್ನ	೧-೬
೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ	೭-೧೧
೩. ತುಂಗಭದ್ರೆ - ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ	೧೨-೧೪
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೧. ನಾಲ್ಕು ಮೊಳ ಭೂಮಿ - ಚದುರಂಗ	೧೯-೨೯
೨. ಅಂಕ - ಬೊಳುವಾರು ಮಹಮದ್ ಕುಂಞಿ	೩೧-೪೭
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೧. ಘಾಟಿ ಸೊಸೆ - ಜನಪದ ಕತೆ	೬೧-೭೦
೨. ಲಾವಣಿ - ಹಲಗಲಿಯ ಬೇಡರು	೭೧-೭೭
೩. ಒಂದು ಅಪೂರ್ವ ಕಥನಗೀತೆ - "ಗರತಿಗಂಗವ್ವ" - ಸಿ.ಪಿ.ಕೆ	೭೮-೮೩

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ನಮಗೆ ಬೇಕಾಗಿರುವ ಇಂಗ್ಲಿಷ್ - ಕುವೆಂಪು	೮೪-೯೨
೨. ವೃತ್ತ ಪತ್ರಿಕಾ ಸ್ವಾತಂತ್ರ್ಯ - ಡಿ.ವಿ.ಜಿ	೯೩-೧೦೩
೩. ಇದೆಲ್ಲ ಹೇಗೆ ಶುರುವಾಯಿತು! - ಎಂ.ಆರ್. ಕಮಲ	೧೦೪-೧೧೪

(ಮೂಲ: ರೋಸಾಪಾರ್ಕ್)

ಬಿ.ಬಿ.ಎ ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್

I. ಕಾವ್ಯ ಭಾಗ

೧. ಸಂಧಿಮಾಲ್ಪುದುತ್ತಮ ಪಕ್ಷಂ

- ರನ್ನ

ಆಶಯ :

ರನ್ನನ 'ಸಾಹಸ ಭೀಮ ವಿಜಯಂ' ಓದುಗನ ಮನಸ್ಸಿಗೆ ಹತ್ತಿರವಾಗುವುದು ಅದರ ನಾಟಕೀಯ ಗುಣದಿಂದ ಮತ್ತು ದುರಂತ ನಾಯಕನಾದ ದುರ್ಯೋಧನನ ಪಾತ್ರ ಚಿತ್ರಣದಿಂದ. ಈ ಎರಡು ಅಂಶಗಳು ಅತ್ಯಂತ ಸಮರ್ಥವಾಗಿ ವ್ಯಕ್ತಗೊಂಡಿರುವ ಹಲವು ಸನ್ನಿವೇಶಗಳು ಕೃತಿಯ ಉದ್ದಕ್ಕೂ ಇವೆ. ದುರ್ಯೋಧನ 'ನಲಕಿಷಿರುವನೆಂದು ಬಗೆದಿರೆ ಚಲಕಿಷಿವೆ' ಎಂದು ಹೇಳುವ ಮೂಲಕ ಸಹೃದಯರ ಮನಗೆಲ್ಲುತ್ತಾನೆ.

"ಮನುಷ್ಯರಲ್ಲಿ ದೊಡ್ಡವರು, ಸಣ್ಣವರು, ಖ್ಯಾತರು, ಅನಾಮಿಕರು ಎಂಬೆಲ್ಲಾ ಗೆರೆಗಳನ್ನು ದಾಟಿ, ಅತ್ಯಂತ ಸಾಮಾನ್ಯ ವ್ಯಕ್ತಿಯಲ್ಲಿ ಕೂಡ ಘನತೆಯ ಮಾನವೀಯತೆಯ ಕಿರಣವಿರುವುದನ್ನು ಆತ ಸಾವಿನ ತೆಕ್ಕೆಯಲ್ಲಿದ್ದಾಗ, ಪ್ರಕೃತಿಯ ವಿನಾಶಕರ ಅಪ್ಪಣೆಯಲ್ಲಿದ್ದಾಗ ಕಾಣುತ್ತೇವೆ." ಎಂಬ ಪಿ ಲಂಕೇಶರ ಮಾತನ್ನು ಇಲ್ಲಿ ನೆನೆಯಬಹುದು. ಕುರುಕ್ಷೇತ್ರ ಯುದ್ಧದಲ್ಲಿ ತನ್ನವರನ್ನೆಲ್ಲಾ ಕಳೆದುಕೊಂಡ ದುರ್ಯೋಧನನ ಮಾನವತೆ, ಆತ್ಮಾಭಿಮಾನ ,ಭಲ, ಸೇಡು ಹಲವು ಕಾಲ ಮನಸ್ಸಿನಲ್ಲಿ ಉಳಿಯುತ್ತದೆ.

ಪ್ರಸ್ತುತ ಭಾಗವನ್ನು 'ಗದಾಯುದ್ಧ'ದ ಎರಡು ಮತ್ತು ಮೂರನೇ ಆಶ್ವಾಸಗಳಿಂದ ಆಯ್ದುಕೊಳ್ಳಲಾಗಿದೆ. ಯುದ್ಧಭೂಮಿಯಲ್ಲಿ ಒಬ್ಬಂಟಿಯಾಗಿ ತೊಳಲಾಡುತ್ತಿದ್ದ ದುರ್ಯೋಧನನನ್ನು ಸಂಜಯ ಭೇಟಿಯಾಗುವ ಸಂದರ್ಭವನ್ನು ಇಲ್ಲಿ ಸಂಗ್ರಹಿಸಲಾಗಿದೆ. ಸಂಜಯನ 'ಸಂದಿಮಾಲ್ಪುದುತ್ತಮ ಪಕ್ಷಂ, ಎಂಬ ವಿವೇಕದ ನುಡಿಗಳನ್ನು ತಿರಸ್ಕರಿಸುವ ದುರ್ಯೋಧನ, ಪಾಂಡವರ ವಿರುದ್ಧ ಸಿಡಿದೆಳೆುತ್ತಾನೆ. ಪಾಂಡವರ ಅಸಮರ್ಥತೆಯನ್ನು ಎತ್ತಿ ತೋರುತ್ತಾ ಯುದ್ಧ ಮಾಡುವ ನಿರ್ಣಯವನ್ನೇ ತೆಗೆದುಕೊಳ್ಳುತ್ತಾನೆ. ಪ್ರತಿನಾಯಕನಾಗಿ ತನ್ನ ಆತ್ಮಾಭಿಮಾನದಿಂದ ಓದುಗರ ಮನವನ್ನು ದುರ್ಯೋಧನನ ಪಾತ್ರ ಗೆದ್ದರೂ ಮನುಷ್ಯನ ಅಧಿಕಾರದಾಹ, ಲೋಲುಪತೆ, ಆಸೆಬುರುಕತನ, ದುಷ್ಟತನ, ದ್ವೇಷ, ಹಟಮಾರಿತನಗಳ ಪರಿಣಾಮಗಳ ಬಗ್ಗೆಯೂ ನಮ್ಮನ್ನು ಚಿಂತನೆಗೆ ಹಚ್ಚುತ್ತದೆ.

ಧೃತರಾಷ್ಟ್ರಂ ದ್ರುಮಮಾದುದು |
ಶತಶಾಖಿಂ ಪಂಚಶಾಖಿಮಾದುದು ಪಾಂಡು ||
ಕ್ಷಿತಿರುಹಮಕ್ಷಯಮಾಯ್ತಾ |
ದ್ವಿತ್ತೀಯಮಾಯ್ತೇಕಶಾಖಿಮಿವನಿಂದಾದ್ಯಂ

ವ|| ಎಂದು ಸಂಜಯಂ ಕುರುರಾಜನಂ ನೋಡಿ

ನೃಪ ನಿನ್ನಂ ಪಿಡಿದುಯ್ಯೆ ಭಾನುಮತಿಯಂ ಸಂತ್ಯೆಸಿ ಚಿತ್ರಾಂಗದಂ |
ಗುಪಯೋಗಾಸ್ತಮನೆಚ್ಚು ಕೂಡೆ ನಭದಿಂ ಗಾಂಡೀವಿ ತರ್ಪಾಗಳೇ ||
ಕೃಪನೀ ಸೈಂಧವನೀ ಸರಿತ್ತನಯನೀ ರಾಧೆಯನೀ ಮದ್ರಭೂ |
ಮಿಪನೀ ಕುಂಭಜನೀ ಕುರುಪ್ರಭವರಂದೇಂ ಹಮ್ಮದಂಬೋದರೇ

ಮೃಡನೋಳ್ ಪಾಶುಪತಾಸ್ತ್ರಂ |
ಬಡೆದಂ ತ್ರಿದಶಾಧಿಪತಿಯೊಳಧಾಸನಮಂ ||
ಪಡೆದಂ ನಾರಾಯಣನೋಳ್ |
ಪಡೆದಂ ಗಾಂಡೀವಿ ಸುಭದ್ರೆಯಂ ಭದ್ರಮನಂ

ಉರಿ ಕೊಳೆ ಕೋಟೈಗಂ ಕೊಳೆ ವಿಷಾಹಿಕುಳಂ ಕೊಳೆ ಶತ್ರು ಭೂಮಿಯೋಳ್
ಗಿರಿಗಹನಂಗಳೋಳ್ ವಿಷಮರಾಕ್ಷಸಸಂಕುಲದೋಳ್ ವರಾಹಸಿಂ ||
ಧುರ(ಖ)ರಶಯ್ಯೆಯೋಳ್ ವಿಪುಲಭೀಕರದೋಳ್ ನಿಜಬಾಹುವಜ್ರಪಂ |
ಜರದೊಳಗಿಟ್ಟು ರಕ್ಷಿಸಿದನಲ್ಲೆ ಸಹೋದರರಂ ವ್ಯಕೋದರಂ

ಬಕನಂ ಹಿಡಿಂಬನಂ ಕೀ |
ಚಕನಂ ಕಿಮ್ಮೀರನಂ ಜಟಾಸುರನಂ ಕೊಂ ||
ದ ಕಲಿ ಜರಾಸಂಧನನಿ |
ಕೈ ಕೊಂದ ಬಲ್ಲಾಳ್ ಮರುತ್ತುತಂ ಕೇವಳನೇ

ಯಮರಾಜಂ ತಂದೆ ಭೋಜಪ್ರಭವೆ ತನಗೆ ತಾಯ್ ಮಯ್ಯನಂ
ವಾಸುದೇವಂ |
ಸಮರಕ್ರೀಡಾರ್ಥದಭೃಥನೆಯಮಳನುಜರ್ ಸಂದ ಭೀಮಾರ್ಜುನರ್ ಕೋ |

ಪಮವಂಧ್ಯಂ ಚಾಪವಿದ್ಯಾಗುರು ಕಳಶನೆಂದಂದು ಸಾಮಾನ್ಯನಲ್ಲಂ
ಹಿಮಕೃದ್ವಂಶಾವತಾರಂ ಭರತಕುಲಶಿರಶ್ಯೇಖರಂ ಧರ್ಮಪುತ್ರಂ

ಅಮುಳ್ಳಳ್ ವಿನಯದ ವಿಕ್ರಮ |
ದಮುಳ್ಳವರ್ ಮುಳಿಯೆ ಗಂಡರಿಲ್ಲವರ ಪರಾ ||
ಕ್ರಮಮಂ ನೀನಜಿದಿದುರ್ಧಂ |
ಸಮರದೊಳಿಸುವುದೆ ಕುರುಕುಲಂಬರಭಾನೂ

ವಾ ಎಂದು ನುಡಿದ ಸಂಜಯನ ನುಡಿಗೆ ಘಣಿರಾಜಕೇತನಂ ಸಿಡಿಲ್ಲು

ತನಗೆ ಹತೋಶ್ವತ್ಥಾಮೋ |
ಯೆನಲಕ್ಕುಮೆ ಯಮಪುರಕ್ಕೆ ಗುರುಪೋಪೆಡೆಯೋಳ್ ||
ಘನಕುಂಜರ ಎಂದೆಂಗುಮೆ |
ಜನರಂಜನೆಗೆಯಲಾದುದಿಲ್ಲಮಗನಂ

ಈ ದೊರೆಯುಮಗನುಂ ಮೃಷ |
ವಾದಂ ನೋಡೆಂದು ಧರ್ಮನಂ ಮೂದಲಿಸಲ್ ||
ಪೋದಂ ಪುತ್ರನನಟಿಸಲ್ |
ಪೋದನೆ ಯಮಪುರಕೆ ಮುಕ್ತಬಾಣಂ ದ್ರೋಣಂ

ವನಿತೆಯ ಕೇಶಮಂ ಸಭೆಯೊಳೆನ್ನನುಜಂ ತೆಗೆವಲ್ಲಿ ಗಂಡನಾ ||
ಗನೆ ಭಗದತ್ತನಾನೆ ಬರಿಯೆಲ್ಲುಡಿವನೆಗಮೊತ್ತೆ ಗಂಡನಾ ||
ಗನೆ ಕೊಲಲೊಲ್ಲದಂಗಳಪತಿ ಬಿಲ್ಲೊಳೆ ಕೊಂಡೆವಿವಲ್ಲಿ ಗಂಡನಾ |
ಗನೆ ಕುರುಬಾಲಸಂಹರಣಮಾತ್ರದೆ ಮಾರುತಿ ಗಂಡನಾದನೇ

ಗುರುವಂ ಪ್ರೋಚ್ಚಿತ್ತಚಾಪನಂ ಪುಸಿದು ಕೊಂದಾ ಬೀರಮಂ ಭೀಷ್ಮರಂ
ಶರಶಯ್ಯಾಗತರಂ ಕರುತ್ತು ಗುಳಿಯೆಚ್ಚಾ ಪೊಚ್ಚುಕುಂ ಕರ್ಣನಂ ||
ವಿರಥಜ್ಯಾಯುಧನೆನ್ನದೆಚ್ಚು ತಲೆಗೊಂಡಾ ಶೌರ್ಯಮಂ ಪಾಂಡುಪು|
ತ್ರರೆ ಬಲ್ಲರ್ ಮೆಳಿಯೆಲೈ ಸಾಹಸಧನಂ ದುರ್ಯೋಧನಂ ಬಲ್ಲನೇ

ಸೊಕಮಿರ್ಕಕ್ಕಟ ದರ್ಭಪಾಣಿ ಯಮಜಂ ದರ್ವೀಕರಂ ವಾಯುಪು |
ತ್ರಕನುಂ ಜರ್ಜರಹಸ್ತನಿಂದ್ರತನಯಂ ದಸ್ರಾತ್ಮಜರ್ ದಂಡಮು ||

ಷ್ಟಿಕರರ್ ಶಸ್ತ್ರವಿಡಂಬಮೇವುದವರ್ಗಂ ಪಾಂಚಾಲಿಯುಂ ಗಂಧದಾ |
ಯಕಿಯಾಗಿರ್ಪಿನಮಂದು ಮತ್ಸ್ಯಗೃಹದಿಂದೀ ನಿಗ್ರಹಂ ಪೊಲ್ಲದೇ

ವ|| ಎಂದು ದುರ್ಯೋಧನಂ ಸಮರೋದ್ಯೋಗಂಗೆಯೈ
ಸಂಜಯನಂಜದೆ ಮಾರ್ಕೊಂಡು-

ಪ್ರತಿಕೂಲದೈವನೈ ನೀಂ |
ಪ್ರತಿನೃಪರನುಕೂಲದೈವರಸಹಾಯನೆ ನೀಂ ||
ಪ್ರತಿನೃಪರಸಹಾಯರ್ ನೀಂ |
ಪ್ರತಿಬಲನದಱಿಂದನರ್ಥಕಂ ವಾಕ್ಯಾರ್ಥಂ

ವ|| ಎಂದು ನುಡಿದ ಸಂಜಯನ ನುಡಿ ಕರ್ಣಕತೋರಮಾಗೆ
ದುರ್ಯೋಧನನದರ್ಕೆ ನಿವೈಸಿ-

ಸಮರಜಯಂ ದೈವಾಯ |
ತ್ತಮದಱಿನಾ ಪುರುಷಕಾರಮೆಮಗಾಯ್ತೀಗಳ್ ||
ಯಮನಂದನಾದಿಗಳೊಳೊಂ |
ದೆ ಮೆಯ್ಯೊಳಾಂತಿಱಿವೆನೆನ್ನ ಚಲಮಂ ಮೆಳಿವೆಂ

ಸುರ ಸಿಂಧೂಧ್ವವ ಕುಂಭಜನ್ಮ ದಿನಕೃತ್ಪುತ್ರಾದಿಗಳ್ ಸಾಯೆ ಸಂ |
ಗರದೊಳ್ ಪಾಂಡವರಂ ಗೆಲಲ್ ನೆಳಿದನಿಲ್ಲೇಕಾಕಿ ದುರ್ಯೋಧನಂ |
ಸೆರಗಂ ಸಾರ್ಥಪನೆಂಗುಮೀ ಧರೆ ಭುಜಾದಂಡಂ ಗದಾದಂಡಮೆಂ |
ಬೆರಡುಂ ಸಂಜಯ ಮಜ್ಜಯಕ್ಕೊದವಿರಲ್ ಮತ್ತನೃರಂ ಪಾರ್ವನೇ

ವ|| ಎಂದು ನುಡಿದು ಕಾಲದಂಡಪ್ರಚಂಡಮಪ್ಪ ತನ್ನ ಗದಾದಂಡಮಂ
ಭುಜಾದಂಡ ದೊಳಳವಡಿಸಿಕೊಂಡು ಪಾಂಡವರ್ಗಭಿಮುಖನಾಗಿ ನಡೆವ
ಪನ್ನಗಪಾತಕನ ಮುಳಿಸಿ ನಂದವನಳಿದು ಸಂಜಯನಂಜದೆ ಮಾರ್ಕೊಂಡು

ಪವನಾತ್ಮಜಂ ಮಹಾರಥ |
ನವನಿಪ ನೀಂ ಸಮರಥನೆ ಅದರ್ಕಧಿಕನೊಳಾ ||
ಪವನಾತ್ಮಜನೊಳ್ ಮಳಿ ಬ |
ಧ್ವವೈರಮಂ ಸಂಧಿಮಾಱ್ಱುದುತ್ತಮಪಕ್ಷಂ

ವಾ|| ಎಂದು ನುಡಿದ ಸಂಜಯನ ನುಡಿಗೇ ಪಿಂಗಾಕ್ಷನತಿವಿಷಮಪರುಷವೇಷಾ ವೇಶಧರನಾಗಿ-

ಅತಿರಥನಾತಂ ಗಡ ಬಲ |
ಯುತ ಸಮರಥನೆನ್ನೊಳಧಿಕಬಲವಂತಂ ಮಾ ||
ರುತಿ ಗಡ ಮಹಾರಥಂ ಮಾ |
ರುತಿಯುಂ ತದ್ರಥದ ಗಾಲಿಗಳ್ ದೊಡ್ಡಿದುವೇ

ಪೆಱರಂ ಪೊಗಟ್ಟಪೆಯೆಮ್ಮಂ |
ಕಿಳಿಯರ್ ಮಾಡಿದಪೆಯೆಲವೊ ಸಂಜಯ ನೀನುಂ ||
ಪೆಱನೊರ್ವಂ ಬಿಲ್ಲೋಜಂ |
ಪೆಱನೊರ್ವಂ ಸಿಂಧುಪುತ್ರನಾಗಲ್ ಬಗೆವೋ

ನಿನ್ನ ಮಹಾರಥನಳವುಮ |
ನೆನ್ನಳವುಮನಳಿಯದಿಳಿಸಿ ಸಮರಥನೆಂದಯ್ ||
ಮುನ್ನಂ ನಿನಗಾಂ ಪೊಸತೇ |
ಪನ್ನಗಳೇತನನೊಳಾಂಪ ಗಂಡರುಮೊಳರೇ

ಕವಿ ಪರಿಚಯ

ರನ್ನ: ಮುದುವಳಲಿನಲ್ಲಿ (ಈಗಿನ ಮುಧೋಳ) ಬಳೆಗಾರ ಕುಟುಂಬದಲ್ಲಿ ಕ್ರಿ.ಶ. ೯೪೯ ರಲ್ಲಿ ಹುಟ್ಟಿದವನು ಕವಿ ರನ್ನ. ಬಾಲ್ಯದಿಂದಲೂ ಈತನು ವಿದ್ಯಾಭ್ಯಾಸದಲ್ಲಿ ತೊಡಗಿ, ತನ್ನ ಕವಿತ್ವ ಮತ್ತು ಪಾಂಡಿತ್ಯಗಳೆರಡರಿಂದಲೂ ಉಭಯ ಕವಿಯೆಂದು ಪ್ರಸಿದ್ಧನಾಗಿ, ಸಾಮಂತರಾಜರಲ್ಲಿಯೂ, ಮಂಡಲೇಶ್ವರರಲ್ಲಿಯೂ ಆಶ್ರಯ ಪಡೆದು, ಕ್ರಮೇಣ ಅಭಿವೃದ್ಧಿ ಹೊಂದುತ್ತಾ ಚಾಲುಕ್ಯ ಚಕ್ರವರ್ತಿ ತೈಲಪನ ಆಸ್ಥಾನದಲ್ಲಿ ಕವಿಚಕ್ರವರ್ತಿಯೆಂಬ ಹೆಸರನ್ನು ಪಡೆದನು. ಇವನಿಗೆ ಶಾಂತಿ ಮತ್ತು ಜಕ್ಕಿ ಎಂಬ ಇಬ್ಬರು ಹೆಂಡತಿಯರಿದ್ದರು. ರಾಯ ಎಂಬ ಮಗನೂ ಅತ್ತಿಮಬ್ಬೆ ಎಂಬ ಮಗಳೂ ಇದ್ದರು. ಅಜಿತ ಪುರಾಣ, ಗದಾಯುದ್ಧ ಅಥವಾ ಸಾಹಸಭೀಮ ವಿಜಯ ಇವು ರನ್ನನ ಉಪಲಬ್ಧ ಕೃತಿಗಳು. ಪರಶುರಾಮಚರಿತ, ಚಕ್ರೇಶ್ವರ ಚರಿತ ಈವರೆಗೂ ದೊರೆತಿಲ್ಲ. 'ರನ್ನಕಂದ'ದ ಭಾಗ ದೊರೆತಿದ್ದರೂ ಇದು ರನ್ನನೇ ರಚಿಸಿರುವ ಕೃತಿಯೆಂಬುದು ನಿರ್ಣಯವಾಗಿಲ್ಲ. ಇವನು ಕಾವ್ಯ ರಚನೆಯಲ್ಲಿ ಪಂಪನ ಪರಂಪರೆಯನ್ನೇ ಅನುಸರಿಸಿದ್ದರೂ ನಾಟಕೀಯ ಗುಣದಿಂದಾಗಿ ಸತ್ವಯುತ ಕವಿಯಾಗಿದ್ದಾನೆ.

ಕಠಿಣ ಪದಗಳ ಅರ್ಥ :

ಧಮ-ಮರ, ಉಪಯೋಗಾಸ್ತ್ರ-ಒಂದು ಅಸ್ತ್ರ. ಸರಿತ್ ತನಯ-ಭೀಷ್ಮ, ಹಮ್ಮದಂ ಬೋದರೇ-ಮೂರ್ಛೆ ಹೋಗಿದ್ದರೆ?, ಮೃಡ - ಶಿವ, ತ್ರಿದಶಾಧಿಪತಿ, ಇಂದ್ರಕೋಳಿ- ಹಿಡಿಯಲು, ಕೋಲ್ಮುಗಂ-ಕೋಡುಳ್ಳ ಮೃಗ, ಖಡ್ಗ ಮೃಗ, ವಿಷಾಹಿಕುಳಂ- ವಿಷಸರ್ಪ ಸಂಕುಲ, ವರಾಹ ಸಿಂಧೂರ- ಕಾಡು ಹಂದಿಗಳ ಮತ್ತು ಆನೆಗಳ ಖರ-ಕಠಿಣವಾದ, ಬಲ್ಲಾಳ್-ಬಲಿಷ್ಠನಾದ ಪುರುಷ, ಬೋಜ ಪ್ರಭವೆ - ಭೋಜರಾಜನ ಮಗಳು, ಚಾಪ ವಿದ್ಯಾ ಗುರು-ದ್ರೋಣ, ಅಮಳ್ಳಳ್ - ಆವಳಿ ಜವಳಿ ಎಂದರೆ ನಕುಲ - ಸಹದೇವರು, ಇಳಿಸು - ತಿರಸ್ಕರಿಸು, ಕುರುಕುಲಾಂಬರ ಭಾನು - ಕುರುವಂಶವೆಂಬ ಗಗನಕ್ಕೆ ಸೂರ್ಯನಂತೆ ಇರುವ ದುರ್ಯೋಧನ, ಕುಂಜರ - ಆನೆ, ಅಱಮಗ - ಧರ್ಮರಾಯ ಈ ದೊರೆಯ - ಯೋಗ್ಯತೆಯುಳ್ಳ, ಮೃಷನಾದಂ - ಸುಳ್ಳುಗಾರನಾದನು ಕುರು ಬಾಲ - ಈ ಕುರುವಂಶದ ಬಾಲಕರು, (ದುರ್ಯೋಧನನ ತಮ್ಮಂದಿರು) ಮಾರುತಿ - ವಾಯುಪುತ್ರ ಭೀಮ ಕರುತ್ತು - ಕೋಪಗೊಂಡು ತಲೆಗೊಂಡ, ತಲೆಗೊಂಡ - ತಲೆಯನ್ನು ತೆಗೆದ, ಸೊಕಂ ಇರ್ಕೆಂ - ಸುಖವಾಗಿರಲಿ, ಗಂಧದಾಯಕಿ - ಸುಗಂಧವನ್ನು ಕೊಡುವ ಸೇವಕಿ, ಪ್ರತಿ ನೃಪರು - ಎದುರು ಪಕ್ಷದ ರಾಜರು, ಪುರುಷಕಾರ - ಪುರುಷ ಪ್ರಯತ್ನ, ಅಂತು ಇಳಿವೆನ್ - ಪ್ರತಿಭಟಿಸಿ ಯುದ್ಧ ಮಾಡುತ್ತೇನೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಪಾಂಡವರ ಸಾಮರ್ಥ್ಯವನ್ನು ಸಂಜಯನು ಹೇಗೆ ಚಿತ್ರಿಸುತ್ತಾನೆ?
೨. ಪಾಂಡವರ ಸಾಮರ್ಥ್ಯಗಳನ್ನು ದುರ್ಯೋಧನಿಗೆ ಅರ್ಥ ಮಾಡಿಸುವ ಸಂಜಯನ ಪ್ರಯತ್ನಕ್ಕೆ ದುರ್ಯೋಧನನ ಪ್ರತಿಕ್ರಿಯೆ ಏನು?
೩. ದುರ್ಯೋಧನನ ಛಲ ಪ್ರಸ್ತುತ ಕಾವ್ಯಭಾಗದಲ್ಲಿ ಹೇಗೆ ಮೂಡಿ ಬಂದಿದೆ?
೪. 'ಸಂಧಿಮಾಟ್ಟುದುತ್ತಮ ಪಕ್ಷಂ' ಎಂದು ಸಂಜಯ ಹೇಳಲು ಕಾರಣವೇನು?
೫. ದುರ್ಯೋಧನನ ಛಲ ಸಮಷ್ಟಿಯ ಹಿತಕ್ಕೆ ಧಕ್ಕೆ ತರುವಂತಹುದೇ? ಚರ್ಚಿಸಿ.
೬. 'ಮನುಷ್ಯನ ಹಠ, ಅಭಿಮಾನ, ಛಲಗಳು ಕೆಲವೊಮ್ಮೆ ರಕ್ತಪಾತ, ಅಶಾಂತಿಗಳಿಗೆ ಕಾರಣವಾಗುತ್ತದೆ' -ಈ ಮಾತನ್ನು ಸಮಕಾಲೀನ ಸಂದರ್ಭದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಚರ್ಚಿಸಿ.

೨. ವಚನಗಳು

ಆಶಯ :

‘ವಚನ’ - ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳಲ್ಲಿ ಒಂದು. ಅದರ ಅರ್ಥ ಮಾತು, ವ್ಯಕ್ತಪಡಿಸು ಎಂದು. ವಾಸ್ತವವಾಗಿ ವಚನವೆಂದರೆ ಗದ್ಯವಾದರೂ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪರಂಪರೆಯಲ್ಲಿ ಅದಕ್ಕೆ ಒಂದು ವಿಶಿಷ್ಟ ಬಂಧ ಶಿಲ್ಪವಿದೆ. ೧೨ ನೇಶತಮಾನದಲ್ಲಿ ಕರ್ನಾಟಕದ ಸಾಮಾಜಿಕ, ಧಾರ್ಮಿಕ ಆಂದೋಲನಕ್ಕೆ ಕಾರಣವಾದ ಒಂದು ವಿಶಿಷ್ಟ ಸಾಹಿತ್ಯ ಪರಂಪರೆ. ಈ ಪರಂಪರೆಯಲ್ಲಿ ದೊರೆತಿರುವ ಮೊಟ್ಟ ಮೊದಲ ವಚನಕಾರ ದೇವರ ದಾಸಿಮಯ್ಯ ನಂತರದಲ್ಲಿ ಸಕಲೇಶ ಮಾದರಸ, ಅಲ್ಲಮಪ್ರಭು, ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ, ಚೆನ್ನ ಬಸವಣ್ಣ, ಸಿದ್ಧರಾಮಯ್ಯ ಮುಂತಾದವರು.

ವಚನಕಾರರಲ್ಲಿ ಅಗ್ರಗಣ್ಯನಾದ ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿಯವರ ವಚನಗಳು, ಸರಳ, ಸುಲಭ, ಸದಾಚಾರಸ್ಪೃತಿಗಳು. ಸಮಾಜದಲ್ಲಿನ ಅಜ್ಞಾನ ಅಂಧಕಾರಗಳನ್ನು ತೊಡೆದು ಹಾಕಲು ಲಿಂಗ ನಿಷ್ಠೆ, ಅಂತರಂಗ ಶುದ್ಧಿ, ಆತ್ಮವಿಮರ್ಶೆ, ಸಮಾನತೆಯ ಸಮಾಜದ ನಿರ್ಮಾಣ ಇವರ ವಚನಗಳ ಆಶಯ. ಭಾರತದಲ್ಲಿ ಜಾತಿ ತಾರತಮ್ಯ, ವರ್ಣಭೇದಗಳೇ ಪ್ರಧಾನವಾಗಿ ರೋಗಗ್ರಸ್ತ ಸಾಮಾಜಿಕ ವ್ಯವಸ್ಥೆ ನಿರ್ಮಾಣವಾಗಿದ್ದು, ಅದನ್ನು ತೊಡೆದು ಹಾಕಲು ವಚನಕಾರರು ಕಂಕಣ ಬದ್ಧರಾಗಿದ್ದರು. ಇಂದಿಗೂ ಅದೇ ಅಸಮಾನತೆಯ ಕಂದರದಲ್ಲಿ ಬಿದ್ದಿರುವ ಭಾರತದ ವರ್ಣವ್ಯವಸ್ಥೆ ಸುಧಾರಣೆಗೆ ವಚನಗಳ ಅಧ್ಯಯನ ಹೆಚ್ಚು ಪ್ರಸ್ತುತವೆನಿಸುತ್ತದೆ. ಕನ್ನಡಕ್ಕೆ ಅನುಭವದ ಹೊಸಕ್ಷೇತ್ರ, ಅಭಿವ್ಯಕ್ತಿಗೆ ಜನರ ಭಾಷೆಯ ಅಗತ್ಯವನ್ನು ಮನಗಾಣಿಸುತ್ತದೆ. ಹೀಗಾಗಿ ವಚನಗಳು ಸಾಮಾನ್ಯ ಜನತೆಗೆ ವೇದ, ಆಗಮ, ಶಾಸ್ತ್ರ, ಪುರಾಣ, ಕಾವ್ಯಗಳಾದ ಬಗೆಯನ್ನು ಗುರುತಿಸಬಹುದು.

ಬಸವಣ್ಣ

ಸಗಣಿಯ ಬೆನಕನ ಮಾಡಿ
ಸಂಪಿಗೆಯರಳಲ್ಲಿ ಪೂಜಿಸಿದರೆ
ರಂಜನೆಯಹುದಲ್ಲದೆ, ಅದರ ಗಂಜಳ
ಬಿಡದಣ್ಣ!! ಲೋಕದ
ಮಾನವಂಗೆ ಶಿವದೀಕ್ಷೆಯ ಕೊಟ್ಟರೆ
ಆ ಕೆಟ್ಟವನೇಕೆ ಸದ್ಭಕ್ತನಹನು
ಕೂಡಲಸಂಗಮದೇವಾ?

ಒಳಗೆ ಕುಟಿಲ, ಹೊರಗೆ ವಿನಯವಾಗಿ
ಭಕ್ತರೆನಿಸಿಕೊಂಬವರನೊಲ್ಲನಯ್ಯಾ
ಲಿಂಗವು! ಅವರು ಸತ್ಪಥಕ್ಕೆ
ಸಲ್ಲರು ಸಲ್ಲರಯ್ಯಾ!
ಒಳಹೊರಗೊಂದಾಗದವರಿಗೆ
ಅಳಿಯಾಸೆದೋರಿ ಬೀಸಾಡುವನವರ
ಜಗದೀಶ ಕೂಡಲಸಂಗಮದೇವ

ಹಲವು ಕಾಲ ಹಂಸೆಯ
ಸಂಗದಲಿದ್ದರೇನು ಬಕ
ಶುಚಿಯಾಗಬಲ್ಲುದೆ?
ಗಂಗಾನದಿಯಲ್ಲಿದ್ದರೇನು ಪಾಷಾಣ
ಮೃದುವಾಗಬಲ್ಲುದೇ? ಕಲ್ಪತರುವಿನ
ಸನ್ನಿಧಿಯಲ್ಲಿದ್ದರೇನು ಒಣ ಕೊರಡು
ಕೊನರಿ ಫಲವಾಗಬಲ್ಲುದೇ?
ಕಾಶಿಕ್ಷೇತ್ರದಲ್ಲಿ ಒಂದು
ಶುನಕವಿದ್ದರೇನು? ಅದರ ಹಾಲು
ಪಂಚಾಮೃತಕ್ಕೆ ಸಲುವುದೇ?
ತೀರ್ಥದಲೊಂದು ಗಾರ್ದಭನಿದ್ದರೇನು
ಕಾರಣಿಕನಾಗಬಲ್ಲುದೇ?
ಖಂಡುಗ ಹಾಲೊಳಗೊಂದು

ಇದ್ದಲ್ಲಿದ್ದರೇನು? ಅದು
ಬಿಳುಹಾಗಬಲ್ಲದೆ? ಇದು
ಕಾರಣ - ಕೂಡಲಸಂಗನ ಶರಣರ
ಸನ್ನಿಧಿಯಲ್ಲಿ ಅಸಜ್ಜನನಿದ್ದರೇನು
ಸದ್ಭಕ್ತನಾಗಬಲ್ಲನೇ?

ನಂಬರು, ನಚ್ಚರು; ಬರಿದೆ ಕರೆವರು;
ನಂಬಲರಿಯರೀ ಲೋಕದ
ಮನುಜರು! ನಂಬಿ ಕರೆದಡೆ, ಓ
ಎನ್ನನೇ ಶಿವನು? ನಂಬದೆ, ನಚ್ಚದೆ
ಬರಿದೆ ಕರೆವರ ಕೊಂಬು ಮೆಟ್ಟಿ
ಕೂಗೆಂದ ಕೂಡಲಸಂಗಮದೇವ.

ಅಕ್ಕಮಹಾದೇವಿ

ಬೆರೆಸುವಡೆ ಬೇಗ ತೋರ!
ಹೊರಹಾಕದಿರಯ್ಯ! ನಿಮ್ಮಲ್ಲಿಗೆ
ಸಲೆ ಸಂದ ತೊತ್ತಾನು,
ಎನ್ನ ಹೊರೆಹಾಕದಿರಯ್ಯ
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನಯ್ಯ,
ನಿಮ್ಮ ನಂಬಿ ಬೆಂಬಳಿ ಬಂದೆನು
ಇಂಬುಗೊಳ್ಳಯ್ಯ ಬೇಗದಲಿ

ಹೊಳೆವ ಕೆಂಜೆಡೆಗಳ
ಮಣಿಮುಕುಟದ ಒಪ್ಪುವ
ಸುಲಿಪಲ್ಲಗಳ ನಗೆಮೊಗದ ಕಂಗಳ
ಕಾಂತಿಯಿಂ ಈರೇಳು ಭವನಮಂ
ಬೆಳಗುವ ದಿವ್ಯ ಸ್ವರೂಪನಂ
ಕಂಡೆ ನಾನು ಕಂಡೆನ್ನ ಕಂಗಳ ಬರ
ಹಿಂಗಿತ್ತಿಂದನಗೆ ಗಂಡ ಗಂಡರನ್ನೆಲ್ಲ
ಹೆಂಡ ಹೆಂಡಿರಾಗಿ ಆಳುವ ಗುರುವನ

ಕಂಡೆ ನಾನು! ಜಗದಾದಿ ಶಕ್ತಿಯೊಳು
ಬೆರೆಸಿ ಒಡನಾಡುವ ಪರಮ ಗುರು
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನನ ನಿಲವ ಕಂಡು
ಬದುಕಿದೆನು.

ಹೊಳೆವ ಕೆಂಜೆಡೆಗಳ ಮೇಲೆ
ಎಳೆವೆಳುದಿಂಗಳು ಫಣಿಮಣಿ
ಕರ್ಣಕುಂಡಲವ ನೋಡವ್ವ! ರುಂಡ
ಮಾಲೆಯ ಕೊರಳವನ ಕಂಡೊಡೆ
ಒಮ್ಮೆ ಬರಹೇಳವ್ವ ಗೋವಿಂದನ
ನಯನ ಉಂಗುಟದ ಮೇಲಿಪ್ಪುದು
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ ದೇವಂಗಿದು
ಕುರುಹವ್ವ.

ಕಾಯ ಮೀಸಲಾಗಿ
ನಿನಗರ್ಪಿತವಾಯಿತ್ತು ಕರಣ
ಮೀಸಲಾಗಿ ನಿನಗರ್ಪಿತವಾಯಿತ್ತು
ಆನೊಂದರಿಯೆನಯ್ಯಾ ಎನ್ನ ಗತಿ
ನೀನಾಗಿ, ಇನ್ನ ಮತಿ ನೀನಾಗಿ, ಪ್ರಾಣ
ನಿನಗರ್ಪಿತವಾಯಿತ್ತು, ನೀನಲ್ಲದೆ
ಪೆರತೊಂದ ನೆನೆದರೆ ಆಣೆ ನಿಮ್ಮಾಣೆ
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ.

ಕವಿ ಪರಿಚಯ

ಬಸವಣ್ಣ : ಕನ್ನಡ ನಾಡಿನ ಇತಿಹಾಸದಲ್ಲಿ ಮುಖ್ಯವ್ಯಕ್ತಿಯಾದರೂ ಬಸವಣ್ಣನ ಜೀವನದ ಬಗ್ಗೆ ಇದೇ ಸರಿಯೆಂದು ಹೇಳಲಾಗುವುದಿಲ್ಲ. ಹೆಚ್ಚು ಸಮೃದ್ಧವಾಗಿರುವಂತೆ ಇವನು ಬಾಗೇವಾಡಿಯಲ್ಲಿ ಮಾದರಸ - ಮಾದಲಾಂಬಿಕೆ ದಂಪತಿಗಳ ಮಗನಾಗಿ ಹುಟ್ಟಿ ವೈದಿಕ ಧರ್ಮವನ್ನು ತಿರಸ್ಕರಿಸಿ ಕೂಡಲಸಂಗಮಕ್ಕೆ ಬರುತ್ತಾನೆ. ಆ ನಂತರ ಕಲ್ಯಾಣದಲ್ಲಿ ನಡೆದ ಶರಣ ಚಳುವಳಿಯಲ್ಲಿ ಮುಂಚೂಣಿಯಲ್ಲಿದ್ದು ಸಾಮಾಜಿಕ, ಧಾರ್ಮಿಕ ಬದಲಾವಣೆಗೆ ಹೋರಾಡಿದವನು. ಅಷ್ಟು ಮಾತ್ರವಲ್ಲದೆ ಸಮಾಜ, ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ, ಧರ್ಮ ಇತ್ಯಾದಿಗಳು ವೈಚಾರಿಕ ನೆಲೆಗಟ್ಟಿನಲ್ಲಿ ನಿಲ್ಲಬೇಕೆಂದು

ಬಯಸಿದವನು ಮತ್ತು ಅದಕ್ಕಾಗಿ ಪ್ರಾಮಾಣಿಕವಾಗಿ ಪ್ರಯತ್ನಿಸಿದವನು ಬಸವಣ್ಣ. ಮಾರ್ಗ ಪರಂಪರೆಯಿಂದ ಕನ್ನಡ ಸಾಹಿತ್ಯವನ್ನು ದೇಸಿಯ ಕಡೆಗೆ ಹರಿಸಿದ ಪ್ರಮುಖರಲ್ಲಿ ಬಸವಣ್ಣ ಒಬ್ಬ. ಹೀಗಾಗಿ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಸ್ಕೃತಿಗಳ ಇತಿಹಾಸದಲ್ಲಿ ಶಾಶ್ವತ ಹೆಸರು ಬಸವಣ್ಣನದು. ಇವನ ಅಂಕಿತ ನಾಮ ಕೂಡಲಸಂಗಮದೇವ.

ಅಕ್ಕಮಹಾದೇವಿ: ಅಕ್ಕಮಹಾದೇವಿ ಶರಣ ಚಳುವಳಿಯಲ್ಲಿ ಎತ್ತರದ ಚೇತನವಾಗಿ ಮೂಡಿಬಂದ ವ್ಯಕ್ತಿತ್ವ. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮೊದಲ ಬರಹಗಾರ್ತಿ ಅಕ್ಕಮಹಾದೇವಿ. ಉಡುತಡಿಯಲ್ಲಿ ಜನಿಸಿದ ಅಕ್ಕ ಎಳೆಯ ವಯಸ್ಸಿನಿಂದಲೇ ಶಿವನನ್ನು ಗಂಡನೆಂದು ಭಾವಿಸಿದ್ದಳು. ಇವಳನ್ನು ಮೋಹಿಸಿದ ಕೌಶಿಕ ಮಹಾರಾಜನನ್ನು ತಿರಸ್ಕರಿಸಿ ಭಕ್ತಿಯ ಮಾರ್ಗವನ್ನು ಅನುಸರಿಸಿದಳು. ಅನುಭವ ಮಂಟಪಕ್ಕೆ ಬಂದು ಅಲ್ಲಮ, ಬಸವಣ್ಣ ಮುಂತಾದವರ ಹಲವು ಪ್ರಶ್ನೆಗಳಿಗೆ ದಿಟ್ಟ ಉತ್ತರ ನೀಡಿ ಇಹದ ಗಂಡರನ್ನು ತಿರಸ್ಕರಿಸಿ ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನನನ್ನು ಗಂಡನೆಂದು ಸ್ವೀಕರಿಸಿ ಸಾಧಾರಣ ಹೆಣ್ಣು ಮಕ್ಕಳಿಗಿಂತ ಭಿನ್ನ ರೀತಿಯಲ್ಲಿ ಬದುಕಿದವಳು. ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ ಇವಳ ವಚನಗಳ ಅಂಕಿತನಾಮ. ಯೋಗಾಂಗ ತ್ರಿವಿಧಿ ಇವಳ ಇನ್ನೊಂದು ಕೃತಿ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಒಳಹೊರಗು ಒಂದಾಗದವರ ಬಗ್ಗೆ ಬಸವಣ್ಣನವರ ಅಭಿಪ್ರಾಯವೇನು?
೨. ಸದ್ಭಕ್ತನಾಗುವ ಬಗೆ ಹೇಗೆ?
೩. ಕೆಟ್ಟವನು ಸದ್ಭಕ್ತನಾಗುವ ಬಗೆಯನ್ನು ಬಸವಣ್ಣ ಹೇಗೆ ನಿರೂಪಿಸುತ್ತಾರೆ?
೪. ಅಕ್ಕ ಮಹಾದೇವಿ ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನನ ದಿವ್ಯಸ್ವರೂಪವನ್ನು ಹೇಗೆ ವರ್ಣಿಸಿದ್ದಾರೆ?
೫. ಅಕ್ಕ ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನನಿಗೆ ತನ್ನನ್ನೆ ಸಮರ್ಪಿಸಿಕೊಳ್ಳುವ ಬಗೆ ಹೇಗೆ?

*

೩. ತುಂಗಭದ್ರೆ

- ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ

ಆಶಯ :

ತುಂಗಭದ್ರೆಯ ಹೆಸರಿನ ತಮ್ಮ ಮಗಳ "ಬಾಲ್ಯದ ಸೊಬಗಿನ ವರ್ಣನೆಯಿಂದ ಆರಂಭವಾಗುವ ಈ ಕವಿತೆ ಕಡೆಯಲ್ಲಿ ಜೀವನದ ಅನಂತತೆಯ ಪ್ರಶ್ನೆಗಳೊಂದಿಗೆ ಮುಕ್ತಾಯವಾಗುತ್ತದೆ. ಮಗುವಿಗೆ ಬಾಲ್ಯದಲ್ಲಿರುವ ಬದುಕಿನ ಮೇಲಿನ ಭದ್ರ ಶ್ರದ್ಧೆ ಮತ್ತು ನಂಬಿಕೆ ಮತ್ತು ತಂದೆ, ತಾಯಿಯರ ಅಚಲ ಪ್ರೀತಿಯನ್ನು ಸಂಬಂಧಗಳ ಅರ್ಧತೆಯೊಂದಿಗೆ ಕಟ್ಟಿಕೊಡುವ ಕವಿತೆ ಇದು. ಮುಂದೆ ತುಂಗಭದ್ರೆಯ ಬದುಕಿನ ಹಡಗನ್ನು ತಮ್ಮ ಬದುಕಿನ ಹಡಗಿನ ಜೊತೆ ಸಮೀಕರಿಸುತ್ತಾ ಭವಿಷ್ಯದ ತಲ್ಲಣಗಳನ್ನು ಗೊಂದಲಗಳನ್ನು ಹಾಗೂ ಮಗಳ ಪ್ರೀತಿಯ ನಂಬಿಕೆಯನ್ನು ಜೀವ ಬೆಳಕಾಗಿಸುವ ಆಶಯ ಹೊತ್ತು ಪದ್ಯ ಮುಕ್ತಾಯಗೊಳ್ಳುತ್ತದೆ.

ಈ ತುಂಗಭದ್ರೆ - ಹೊಳೆಯಲ್ಲ - ವರುಷದ ಮಗಳು ;
ಇವಳೆನ್ನ ದೇವರಾಗಿಹಳು. ಮದರಾಸಿನಲಿ
ಬಿರುಗಾಳಿ ಎದ್ದು ಮೈಸೂರಿನಲಿ ಹತ್ತು ಹನಿ
ಮಳೆ ಬಿದ್ದಿತೆನ್ನಿ - ಇವಳಿಗೆ ನೆಗಡಿ: ಬೀದಿಯಲಿ
ಬೇಸಗೆಯ ಬಿಸಿಲು ಸುಳಿದರೆ ಉಷ್ಣ.... ಮನೆಯೊಳಗೆ
ಎಲ್ಲೆಲ್ಲು ಇವಳೆ, ಇವಳದೆ ಮಾತು, ಇವಳಾಟ!
ಈ ತುಂಗಭದ್ರೆ-ಹೊಳೆಯಲ್ಲ-ವರುಷದ ಮಗಳು
ಒಳಗಣ್ಣು ಕಪ್ಪು ಕತ್ತರಿಸುವಳು. ದಿನವೂ ಹಿಡಿದು
'ಅಕ್ಕ, ಅಮ್ಮ' ಎಂದು ಒಲಿಸಿ, ಬಿಸಿನೀರೆರೆದು,
ಮೈತುಂಬ ಹೊದಿಸಿ, ಧೂಪವನಿಟ್ಟು, ತೊಟ್ಟಲನು
ರಟ್ಟಿ ಬೀಳುವತನಕ ತೂಗಿ, ಮೆಲುದನಿಯಲ್ಲಿ
ಚೋಳ ಕನ್ನೆಯರ ಭಂಗವನು ಪಲುಕಿದವಳು
ಮಲಗುವಂಥವಳೆ, ಈ ಮಾಯಾಂಗನೆ? ಇಣಕಿ,
ಹಡೆ ಎತ್ತಿ ನಕ್ಕು ನಗಿಸುವಳು.

ವರುಷದ ಮಗಳು -
ಇವಳೆನಗೆ ಸರ್ಪಗಾವಲು. ಹೊಸಿಲ ದಾಟಿದರೆ
ಬಾಗಿಲಿಗೆ ಬಂದು ಕಾಡುವಳು.... ಸಂಜೆಯತನಕ
ತಾಯಿ ಬಳಿ ಇವಳ ಅಧಿಕಾರ. ನಡುರಾತ್ರಿಯಲಿ
ನನ್ನೆದೆಗೆ ಇವಳು ದೇವರ ಪದಕ. ಈ ಮಗಳು
ತುಟಿಯ ತೆರೆದರೆ ಸಾಕು ಮೇಲೊಂದು ಸಣ್ಣಕ್ಕಿ,
ಕೆಳತುಟಿಯ ಹಿಂದೆ ಇನ್ನೊಂದು ಹಾಲಿನ ಚುಕ್ಕಿ;
ಬಟ್ಟತಲೆ, ದುಂಡುಮುಖ, ಕಿವಿಯವರೆಗೂ ಕಣ್ಣು,
ಇಷ್ಟಾಗಿ ಶಾಸ್ತ್ರಕ್ಕೆ ಹತ್ತು ಕೂದಲು; ಒಂದು
ಮರುಳು ಜಡೆ, ಅದೂ ಬ್ರಹ್ಮ ಗಂಟು!

ವರುಷದ ಮಗಳು -
ಧೈರ್ಯವೇ ಧೈರ್ಯ. ಆಗಾಗ ಮುಂಗೋಪದಲಿ
ತಂದೆ ಜರೆದರೆ ಇವಳು ತಾಯಿ ಬಳಿ ಸೇರುವಳು.
ತಾಯಿ ಬೇಸರದಿಂದ ಮತ್ತೊಮ್ಮೆ ಗದರಿದರೆ
ಅಂಬೆಗಾಲಿಡುತ ಕಂಬನಿಯೊಂದನುರುಳಿಸುತ
ಬಂದು ತಂದೆಯ ತೊಡೆಯನೇರುವಳು. ಸಂಸಾರ
ಒಂದು ಸಾಗರ. ನಾನು ಒಂದು ದಡ. ಮೀನಾಕ್ಷಿ
ಇನ್ನೊಂದು ದಡ. ನಡುವೆ ತುಂಗಭದ್ರೆಯ ಹಡಗು
ಚಂದಿರನ ಹೊತ್ತು ಓಡಾಡುವುದು. ಆ ಧೈರ್ಯ
ನನಗಿಲ್ಲ; ನನ್ನಂಥ ಎಷ್ಟೋ ಬಾಳಿಗೆ ಇಲ್ಲ.
ಒಂದು ದಡ ಗದರಿದರೆ ಮತ್ತೊಂದು ದಡವಿಹುದು,
ಅಲ್ಲಿ ತಂಗಿದರೆ ಜೀವಕ್ಕೆ ಮಂಗಳವೆನುವ
ಒಂದು ನಂಬಿಕೆಯಿಂದ - (ಇಂಥ ಅರಿಯದ ಕಂದ
ಎಲ್ಲಿದಲೋ ತಂದ ಒಂದು ನಂಬಿಕೆಯಿಂದ)
ಈ ಜೀವ ಬೆಳಕಾಗಿ ಮುನ್ನುಗ್ಗದೆಯೆ, ನಿಂತು,
ಬಿಟ್ಟ ದಡ ಬಲುದೂರವೆಂದು, ತಂಗಲು ಮುಂದೆ
ಇನ್ನೊಂದು ದಡವಿಹುದೋ, ಇಲ್ಲವೋ ಎನುವೊಂದು
ಸಂಶಯದ ಮುಳ್ಳಿಡಿದ ಕಾಡುದಾರಿಗೆ ಬಿದ್ದು
ದಿಕ್ಕುಗೆಟ್ಟಿಹುದು. ತಳಮಳಗೊಂಡು ಎದ್ದೆದ್ದು
ಕನವರಿಸುತಿಹುದು ಮುಂದೇನು ಮುಂದೇನೆಂದು

ಏನ ಬಹುದೋ ಎಂದು, ಏನು ಬಹುದೋ ಎಂದು
ಏನು ಬಹುದೋ ಎಂದು, ನೊಂದು, ನೊಂದು.

ಕವಿ ಪರಿಚಯ

ಕೆ.ಎಸ್. ನ. ಎಂದೇ ಜನಪ್ರಿಯರಾಗಿರುವ ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ
ಕನ್ನಡ ನವೋದಯ ಪರಂಪರೆಯ ಕಾಲಘಟ್ಟದಲ್ಲಿ ಪ್ರವೇಶಿಸಿದ ಮಹತ್ವದ ಕವಿ
'ಮೈಸೂರು ಮಲ್ಲಿಗೆ' ಕನ್ನಡ ಸಾಹಿತ್ಯದಲ್ಲಿ ದಾಖಲೆ ಮುರಿದ ಕೃತಿ. ಮಲ್ಲಿಗೆಯ
ಕವಿ ಎಂದೇ ಜನಪ್ರಿಯರಾದ ಇವರು ನವ್ಯ ಕಾಲಘಟ್ಟಕ್ಕೆ ತಮ್ಮ ಕಾವ್ಯದ ಮಾದರಿಗಳನ್ನು
ಹೊರಳಿಸಿದರು. ೧೯೧೫ ರಲ್ಲಿ ಜನಿಸಿದ ಇವರ ಪ್ರಮುಖ ಕವನ ಸಂಕಲನಗಳೆಂದರೆ
ಮೈಸೂರು ಮಲ್ಲಿಗೆ, ದೀಪದ ಮಲ್ಲಿ, ಐರಾವತ, ಮನೆಯಿಂದ ಮನೆಗೆ, ಉಂಗುರ,
ಶಿಲಾಲತೆ, ನವ ಪಲ್ಲವ, ತೆರೆದಬಾಗಿಲು ಇವರ ತೆರೆದ ಬಾಗಿಲು, ದುಂಡು
ಮಲ್ಲಿಗೆ, ಮಲ್ಲಿಗೆಯ ಮಾಲೆ ಇವರ ಸಮಗ್ರ ಕಾವ್ಯ ಕೃತಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ
ಅಕಾಡೆಮಿ ಪುರಸ್ಕಾರ ದೊರೆತಿದೆ. ಪಂಪ ಪ್ರಶಸ್ತಿಯನ್ನು ಪಡೆದುಕೊಂಡಿದ್ದಾರೆ.
ಇವರು ೧೯೯೦ ರಲ್ಲಿ ಮೈಸೂರಿನಲ್ಲಿ ನಡೆದ ಅಖಿಲ ಭಾರತ ೬೦ನೆಯ ಕನ್ನಡ
ಸಾಹಿತ್ಯ ಸಮ್ಮೇಳನ ಅಧ್ಯಕ್ಷರೂ ಆಗಿದ್ದರು.

ಪ್ರಶ್ನೆಗಳು :

೧. ಕವಿ ತುಂಗಭದ್ರೆಯನ್ನು ಮಾಯಾಂಗನೆ ಎಂದು ಕರೆಯಲು ಕಾರಣವೇನು?
೨. ವರುಷದ ಮಗಳ ಧೈರ್ಯ ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ?
೩. ತುಂಗಭದ್ರೆಯ ಹಡಗಿನ ಧೈರ್ಯ ಎಂತಹದು?
೪. ತುಂಗಭದ್ರೆ ಜೀವ ಬೆಳಕಾಗುವ ಪರಿ ಎಂತಹದು?
೫. ತುಂಗಭದ್ರೆ ಕವಿತೆಯಲ್ಲಿ ಕವಿಗೆ ಉಂಟಾದ ಗೊಂದಲವೇನು?
೬. ತುಂಗಭದ್ರೆ ಕವಿತೆಯ ಆಶಯವೇನು?

*

೪. ವರ್ಧಮಾನ

- ಎಂ. ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ

ಆಶಯ :

ಅಡಿಗರ ವರ್ಧಮಾನ ಕವಿತೆ ಜೀವನದ ಹಲವು ಮುಖ್ಯ ಮಜಲುಗಳನ್ನು ಕುರಿತು ಮಾಡಿದ ಕಲಾತ್ಮಕವಾದ ಪ್ರಬುದ್ಧ ವಿಮರ್ಶೆಯಾಗಿದೆ. ಹರೆಯದ ಮನಸ್ಸಿನ ಕ್ರಾಂತಿಭಾವ, ವರ್ತಮಾನದ ಏರಿಳಿತಗಳಿಂದ ಕೂಡಿದ ನಡವಳಿಕೆ, ಅದನ್ನು ಕಂಡ ಹಿರಿತಲೆಮಾರು ಕಳವಳಗೊಳ್ಳುತ್ತಿರುವ ಬಗೆಯನ್ನು ಚಿತ್ರಿಸುತ್ತದೆ. ಪರಿವರ್ತನೆಗಳೆಲ್ಲವನ್ನೂ, ಒಪ್ಪಿಕೊಳ್ಳುತ್ತಾ ಜೀರ್ಣಿಸಿಕೊಳ್ಳುತ್ತಾ ವರ್ತಮಾನವನ್ನು ಸನಾತನಕ್ಕೆ ಕೊಂಡಿಹಾಕುತ್ತಾ ನಡೆಯುತ್ತಿರುವ ಬದುಕಿನ ಸ್ವರೂಪದ ಬಗ್ಗೆ ಕವಿಯ ಎಚ್ಚರ, ವರ್ತಮಾನದ ವೈಲಕ್ಷಣ್ಯಗಳಿಗೆ ಕಳವಳಗೊಳ್ಳದೆ ಬದುಕು ಸಾರ್ಥಕವಾಗಿ ವಿಕಾಸಗೊಳ್ಳುವ ಪರಿ ಈ ಪ್ರಕಟಗೊಳ್ಳುವ ಬಗೆ ಅನನ್ಯವಾದುದು. ಗೊತ್ತುಗುರಿಯಿಲ್ಲದೆ ಅಜ್ಞಾನ ಆತ್ಮ ಪರಿವೀಕ್ಷಣೆಗೆ ತೊಡಗಿ ಸ್ವಯಂ ಸ್ಫುರಿಸಿ ಹನುಮದ್ವಿಕಾಸಕ್ಕೆವಾಗುವ, ಜೀವನದ ಎಲ್ಲಾ ಬಗೆಯ ಸಾಧನಗಳ ಮುಖ್ಯ ಮಜಲುಗಳ ಧ್ವನಿ ಶಿಲ್ಪ ಈ ಕವಿತೆ.

ತನ್ನ ರಾಜಕುಮಾರತನದ ಮೀಸೆ ಚಿಗುರು
ದೇಶ ಕಾಣದ ಹಾಗೆ ನೆರೆದು, ಕತ್ತಿನ ಕುಣಿಕೆ
ಹರಿದು ಹರವೋ ಹರ. ಹುಲ್ಲು, ದರೆ, ಗಿಡ, ಹೊದರು -
ಎಲ್ಲವನ್ನೆತ್ತಿ ಕುತ್ತಿ ತೀರದ ತುರಿಕೆ
ಮೊಳೆವ ಕೊಂಬಿಗೆ. ಅರಬ್ಬಿಶಾಕಣ ಸವಾರಿಯ ಪೊಗರು
ನಾಣಿಮಗ ಶೀನಿಗೆ. ಆಕಾಶ ಕೈಗೆಟುಕದಿದ್ದಕ್ಕೆ,
ಕೋಶಾವಸ್ಥೆ ಮರಳಿಬಾರದ್ದಕ್ಕೆ, ತನಗಿಂತ ಮೊದಲೆ ತನ್ನಪ್ಪ ಹುಟ್ಟಿದ್ದಕ್ಕೆ,
ಮೊಲೆ ಬಿಡಿಸಿದವಮಾನ ಮುಯ್ಯಿ ತೀರದ್ದಕ್ಕೆ
ರೊಚ್ಚು; ಕೊಚ್ಚುತ್ತಾನೆ ಗಾಳಿಮೋಪು;
ರೇಗಿ ಕಿರುಚುತ್ತಾನೆ ಭಾರಿ ರೋಪು;
ಹೂಂಕರಿಸಿ ಹಾರುತ್ತಾನೆ ಮೂರು ಗುಪ್ಪು.

೨

ಕಿಲಾಡಿರಸ್ತೆಯ ಕೊನೆಯ ತಿರುವಿನಲ್ಲಪಘಾತ
ನ ಪ್ರಮದಿತವ್ಯ ಬೋರ್ಡಿನ ಕೆಳಗೆ. ಹೆದ್ದಾರಿ
ಬಿಟ್ಟು ಬಿದ್ದೆದ್ದು ಹೆದ್ದಾರಿ ಹಿಡಿವುತ್ತಾತ
ವರ್ಧಮಾನದ ವರಾತ. ಬಿದ್ದು ಮೋಣಕಾಲೂರಿ,
ತರಿದ ಮೈ ಕೈ, ಹರಿದ ರೆಕ್ಕೆ, ಜಜ್ಜಿದ ಚಹರೆ
ಉಜ್ಜುವುದು ನಭದ ತುರುಚಿಗೆ. ಗಾಳಿಗುದುರೆ ಸವಾರಿ
ಗುಬ್ಬಿಸಿದ ಹಿಪ್ಪಿಗಳೆಯರು ದೂರ ದೂರ ಗೆಲ್ಲಿನ ಮೇಲೆ
ಹುಬ್ಬೇರಿಸುವರು, ಹಲ್ಕಿರಿಯುವರು, ತಮ್ಮೇಕತಾರಿ ಜೋಗುಳ ಹೀರಿ
ತೂಕಡಿಸುವರು. ಕಂದಕ ತುಂಬಿ ಬಿದ್ದಿರುವ ಭೂತ ವಿರಾಧ
ನ ಸುತ್ತಲೂ ಕಣ್ಣುಗುಡ್ಡೆ, ತಲೆಬುರುಡೆ, ಹೃತ್ಪಂಡ ಚರು.
ಕರುಳ ಗೋಜಲು ತೊಡರಿ ಬಿದ್ದೆದ್ದು ಹರೆವ ಕುಮಾರ
ಕಂಠೀರವಾಭಿನಯ ಕಂಡು ನಲಿವವರಿಲ್ಲ. ಸುನೀತಿ ಕಣ್ಣೀರು ಸುರು
ಚಿಯ ತಿರಸ್ಕಾರ ಗುರು, ಸುಗ್ರಿವಾಜ್ಞೆ ಹೊತ್ತ ವೀರಾಧಿವೀರ
ನಿಗೆ ಆಜ್ಞೆಯೊಕ್ಕಣೆ ಮರೆವು. ಅಂತೂ ತೆವಳಿ ತನ್ನಸುರು
ತನ್ನ ಮಂಡಿಸಾಧನೆಗೆ ತಾನೆ ಚಪ್ಪಾಳೆ
ತಟ್ಟಿ ತಡುಕುತ್ತ ತೊಳಲುತ್ತ ಮುನ್ನುಗ್ಗಿದರೆ
ಸರಿ, ಇಲ್ಲ, ತನ್ನ ತನ್ನ ಕಿಷ್ಕಿಂಧಕ್ಕೆ,
ತನ್ನ ಶ್ರಾಪಗ್ರಸ್ತ ಸೆರೆಗೆ ತಾನೇ ಪಹರೆ

೩

ಕೊರಕಲಿನ ದಂಡೆಯರೆ ಮೇಲೆ ಕುಳಿತಿದ್ದೇನೆ
ಸಿಗರೇಟು ಹಚ್ಚಿ ಸೇದುತ್ತ ಸುಡುವುರಿಯಲ್ಲಿ
ಬೇಸಗೆಯ ಮದ್ಯಾಹ್ನ, ಕೆಳಗೆ ಅಳಲುತ್ತಾನೆ
ಪಂಚಾಗ್ನಿ ಮಧ್ಯಸ್ಥ ಮಗ. ಕೂಗಿ ಕೂಗಿ ಕರೆಯುತ್ತಾನೆ ಮಂಡೆ ಬಿಸಿ
ಕಂದ ಕಿವುಡಾಗಿದ್ದಾನೆ. ಅಥವಾ ಅವನ ಭಾಷೆಯೇ
ಬೇರೋ? ಕಿವುಚುವ ಕರುಳ ಹಿಡಿದು ಕೊರಗುತ್ತೇನೆ: ರಾತ್ರಿ
ನಿದ್ದೆಯೇ ಇಲ್ಲ; ಕಳೆಗೆಟ್ಟ ಮುಖ; ತೊಟ್ಟಿರುವೆ ಹಿಸಿ
ದು ಹರಕಲು, ಹಗಲೆಲ್ಲ ಹಿಪ್ಪಿಗಳ ಜೊತೆ ಹೀರಿ
ಹಿಪ್ಪೆಯಾಗಿದ್ದಾನೆ. ನನ್ನ ಪ್ರತಿರೂಪ ಹುಡಿಗೊಳ್ಳುವೀ ಕಸಿ
ವಿಸಿಗೆ ಕಂಗಾಲಾದೆ. ಮುತ್ತಜ್ಜ ಕಟ್ಟಿದ್ದ ಮನೆ

ದೀಪ ಹಚ್ಚುವರಿಲ್ಲ. ಶ್ರದ್ಧೆ ಕೊಡುವನ್ನು ನೀರಿಲ್ಲದೆಯೆ
ಉರುಳುವರು ಪಿತೃಪಿತಾಮಹರು. ಹೊಕ್ಕುಳಿನ ಬಳ್ಳಿ
ಕತ್ತರಿಸಬಾರದೋ - ಏನೋ. ಬಿತ್ತಕ್ಕೆ ಬೇರಿನ ಚಿಂತೆ
ಇಲ್ಲ, ಆದಷ್ಟು ದೂರ ಟಣ್ಣೆಂದೆಗರಿ
ಬಿಚ್ಚುವುದು ತನ್ನ ಮಾಯಾ ಪಟವ. ಪ್ರಾಯದ ಲಹರಿ
ಗಲ್ಲಿ ಯಾವುದು ತೀರ, ಯಾವ ನೆಲೆ, ಯಾವ ಗುರಿ?

೪

ಗಹ್ವರದ ಒಳಗತ್ತಲಲ್ಲಿ ಸುತ್ತಲು ತಡಕಿ ತಡೆದು ನಡೆಯುವ,
ನಡೆದು ಮುಗ್ಗರಿಸಿ ಬಿದ್ದಿದ್ದು ಹರೆವ, ಹರಿಯುವ ಜಾಡು
ಹಿಡಿವ, ಗುರುತಿಸುವ, ಬೇರ ಬಗೆವ, ಕಳೆದದ್ದನ್ನು ಪಡೆವ,
ಪಡೆದದ್ದಕ್ಕೆ ಪಡಿ ಹತ್ತು ಹಡೆವ ಕವನದ ಕರಡು
ಸಿದ್ಧಪಡಿಸುವ ಕವ್ಯ ವರ್ಧಮಾನಗೆ. ತನ್ನ ತಾನೇ ತಿಕ್ಕಿ
ತಿಕ್ಕಿ, ಚಕಮಕಿಯ ಕಿಡಿಯುಕ್ಕಿಯುಕ್ಕಿ, ಕತ್ತಲ ಹೊಟ್ಟೆ
ಹೊಕ್ಕು ಹೊಯ್ಯುವ ಹವ್ಯ. ಗಹ್ವರವಾಸದೆಕ್ಕಟಮೊಟ್ಟೆ
ಹೊತ್ತು ಸಲ್ಲುವುದೆ ಗುರುದಕ್ಷಿಣೆ. ದೂರದ ಕಡಲ ತೆರೆ ಸೊಕ್ಕಿ
ಬಡಿವ, ಬಾರಿಸುವ ಮರ್ಮರಲಾಲಿಲಯಕ್ಕೆ ಸರಿದೂರೆ ಬಡಿವ
ಕಡಿವ ಚಾಣದ ಪೆಟ್ಟುಪೆಟ್ಟಿಗೂ ಹಲ್ಲುಗುರುಕೊಂಬು ಇವು ಅಷ್ಟಿಷ್ಟು
ಸವೆದು ಸಾಕ್ಷಾತ್ಕಾರಗೊಳ್ಳಬಹುದಾದ ಅಂಶಾವ
ತಾರ ಹೋರೆ. ಉರಿ ಹತ್ತಿ ಕೊಳ್ಳಿ ಧಗಧಗಿಸಿ ಕತ್ತಲ ಮಷ್ಟು
ಹೊತ್ತಿಕೊಳ್ಳಲಿ. ಸ್ವಯಂಪ್ರಭೆ ಸ್ಫುರಿಸುವುದೆ ಆದ್ಯ
ಸ್ವರಿತ - ಉದಾತ್ತ ಅನುದಾತ್ತಶತಪಥದಲ್ಲಿ.

ಗಹ್ವರದ ಮುಖ ಅಲ್ಲ, ಆಚೆ ಬಯಲು ಬರಾವು,
ಹಣ್ಣು ಹಂಪಲು ಹಸುರ ಬಲ್ಲೆ, ಬಲ್ಲೆ;
ಜೀವನನಿಧಾನಶ್ರುತಿ ಶುದ್ಧಿ ಮೊರೆವ ಕರಾವು;
ಹನುಮದ್ವಿಕಾಸಕ್ಕೆ ಇಲ್ಲ ಎಲ್ಲೆ.

ಕವಿ ಪರಿಚಯ

ಎಂ.ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗರು ಕುಂದಾಪುರ ತಾಲ್ಲೂಕಿನ ಮೋಗೇರಿಯವರು.
೧೮-೨-೧೯೧೮ ರಲ್ಲಿ ಜನಿಸಿದ ಅಡಿಗರು ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ ಹಾಗೂ
ನಾಗಪುರ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲಿ ಕ್ರಮವಾಗಿ ಬಿ.ಎ ಆನರ್ಸ್ ಹಾಗೂ ಇಂಗ್ಲೀಷ್
ಎಂ.ಎ ಪದವಿ ಪಡೆದರು. ಹೈಸ್ಕೂಲು ಅಧ್ಯಾಪಕರಾಗಿ ಕನ್ನಡದ ಹೆಸರಾಂತ ಸಾಕ್ಷಿ
ಪತ್ರಿಕೆ ಆರಂಭಿಸಿದವರು. ಲಾಲ್ ಬಹದ್ದೂರ್ ಕಾಲೇಜ್ ಸಾಗರ ಹಾಗೂ ಪೂರ್ಣ
ಪ್ರಜ್ಞ ಕಾಲೇಜು ಉಡುಪಿಯಲ್ಲಿ ಪ್ರೊಫೆಸರ್ ಹಾಗೂ ಫ್ರಿನ್ಸಿಪಾಲರಾಗಿ ಕರ್ತವ್ಯ
ನಿರ್ವಹಿಸಿದರು.

ನವ್ಯ ಕನ್ನಡ ಕಾವ್ಯದಲ್ಲಿ ಒಂದು ಕ್ರಾಂತಿಯನ್ನೇ ಮಾಡಿ ಕನ್ನಡ ಕಾವ್ಯ
ಪರಂಪರೆಯ ಒಂದು ಭಾಗವೇ ಆಗಿದ್ದಾರೆ. ನವ್ಯಕವಿಗಳ ಒಂದು ಪೀಳಿಗೆಯೇ
ಇವರ ಮಾರ್ಗದಲ್ಲಿ ನಡೆದು ಕನ್ನಡ ಕಾವ್ಯ ಸಂಪತ್ತನ್ನು ಸಮೃದ್ಧಿಗೊಳಿಸಿದ್ದು
ಚರಿತ್ರಾರ್ಹವಾದುದು. ಚಂಡಮದ್ದಳೆ, ಭಾವತರಂಗ, ಭೂಮಿಗೀತ, ವರ್ಧಮಾನ
ಮುಂತಾದ ಕವನ ಸಂಕಲನಗಳು ಆಕಾಶ ದೀಪ, ಅನಾಥೆ, ಕಾದಂಬರಿ. ಹುಲಿರಾಯ
ಮತ್ತು ಇತರೆ ಕಥೆಗಳು ಕಥಾಸಂಕಲನ ಮಣ್ಣಿನ ವಾಸನೆ, ಕನ್ನಡದ ಅಭಿಮಾನ -
ವಿಚಾರ ವಿಮರ್ಶಾ ಲೇಖನಗಳು ನೆನಪಿನ ಗಣಿಯಿಂದ ಆತ್ಮಚರಿತ್ರೆ, ಸುವರ್ಣಸಾಹಿತ್ಯ
ರೈತರ ಹುಡುಗಿ, ನಾಲ್ಕು ಮಂದಿಗಳೆಯರು ಮುಂತಾದ ಅನುವಾದ ಸಾಹಿತ್ಯ.

ವರ್ಧಮಾನ ಕವನ ಸಂಗ್ರಹಕ್ಕೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ಕಬೀರ್
ಸಮ್ಮಾನ್ ಪ್ರಶಸ್ತಿ, ಪಂಪ ಪ್ರಶಸ್ತಿಗಳು ಇವರಿಗೆ ಲಭಿಸಿದೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ವರ್ಧಮಾನ ಕವಿತೆಯ ಆಶಯವೇನು?
೨. ವರ್ತಮಾನದ ತಲ್ಲಣಗಳು ವರ್ಧಮಾನ ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ವ್ಯಕ್ತಗೊಂಡಿದೆ.
೩. ಹರೆಯದ ಆಕ್ರೋಶವನ್ನು ಕವಿ ಹೇಗೆ ವ್ಯಕ್ತಪಡಿಸಿದ್ದಾರೆ?
೪. ಪರಂಪರೆಯ ಅಂತರವನ್ನು ವರ್ಧಮಾನ ಕವಿತೆಯಲ್ಲಿ ಗುರುತಿಸಬಹುದೇ
ಚರ್ಚಿಸಿ.
೫. ವ್ಯಕ್ತಿಯ ಮನಸ್ಸಿನ ವಿಕಾಸದ ಹಂತಗಳನ್ನು ವರ್ಧಮಾನ ಕವಿತೆ ಹೇಗೆ
ಕಟ್ಟಿಕೊಡುತ್ತದೆ ಚರ್ಚಿಸಿ.

ಬಿ.ಸಿ.ಎ
ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್

ಪರಿವಿಡಿ

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೧. ಬಿದಿಯಂ ಮಿಾಱುಗುಮೆ ಪೆಱರ ಪೇಱ್ಱುಪದೇಶಂ - ನಾಗಚಂದ್ರ	೧-೫
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೧. ಹೂ ಕೊಟ್ಟ ಚದುರೆ - (ಸಂ) ಜೀ.ಶಂ.ಪ	೫೯-೭೧
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೧. ಗುಳೆ ಏಳುತ್ತಿರುವ ಗ್ರಾಮೀಣ ಶರಣರು - ಪ್ರಸನ್ನ	೮೯-೯೫
೨. ಕೋಟಿ ಮಿದುಳುಗಳ ಬೆಸೆಯುವ ಕೆಲಸ - ನಾಗೇಶ ಹೆಗಡೆ	೯೬-೧೦೨
೩. ಈ ಗೋಡೆ ಮೇಲೆ ಭಯಂಕರ ಬರಹ ಬೇಡ - ಡಾ. ಆರ್. ಪೂರ್ಣಿಮಾ	೧೦೩-೧೧೦

I. ಕಾವ್ಯಭಾಗ

೧. ಬಿದಿಯಂ ಮಿಾಱುಗುಮೆ ಪೆಱರ ಪೇಱ್ಪದೇಶಂ

- ನಾಗಚಂದ್ರ

ಆಶಯ :

ಮನುಷ್ಯ, ಧರ್ಮ, ನಿಷ್ಠೆ, ಪ್ರೇಮ, ತ್ಯಾಗ, ಇತ್ಯಾದಿ ಸದ್ಗುಣಗಳಿಂದ ಬಾಳಿ, ಇತರರನ್ನು ಬಾಳಿಸುವಂತಾದರೆ ಅಂತಹ ಮನುಷ್ಯನನ್ನು ಈ ಸಮಾಜ ಗುಣಗಾನ ಮಾಡುತ್ತ ಬಂದಿದ್ದು, ಇದಕ್ಕೆ ವಿರುದ್ಧವಾಗಿ ಪರನಿಂದನೆ ಮಾಡುತ್ತ ಪರರಿಗೆ, ಪರವಸ್ತುಗಳಿಗೆ ಆಸೆ ಪಡುತ್ತಾ ಅವಾನವೀಯವಾಗಿ ನಡೆದುಕೊಂಡವರನ್ನು ಸಮಾಜ ಎಂದೂ ಒಪ್ಪಿದಂತೆ ಕಾಣುವುದಿಲ್ಲ. ಗೋರಕ್ಷಣೆ, ಸ್ತ್ರೀರಕ್ಷಣೆಗಳಿಗೆ ನಿಂತ ವೀರರನ್ನು ಸಮಾಜ ಸತ್ಕರಿಸಿದ ಉದಾಹರಣೆಗಳು ಉಂಟು ; ಆ ಗುಣಗಳು 'ಮೌಲ್ಯ'ಗಳಾಗಿದ್ದು ಉಂಟು ಹಾಗೆಯೇ ದ್ರೌಪದಿಗೆ ಅವಮಾನ ಮಾಡಿದ ದುರ್ಯೋಧನಾದಿಗಳನ್ನಾಗಲಿ, ಸೀತಾಪಹರಣ ಮಾಡಿದ ರಾವಣನನ್ನಾಗಲಿ ಈ ಸಮಾಜ ಮೆಚ್ಚಲಿಲ್ಲ. ಆದರೆ ನಾಗಚಂದ್ರನ ರಾವಣ ಹಾಗೆ ಸೀತಾಪಹರಣ ಮಾಡಿದರೂ ಅದಕ್ಕೆ ರಾವಣನೊಬ್ಬನೇ ಕಾರಣನಲ್ಲ ಎಂದು ಚಿತ್ರಿಸಿರುವುದರ ಹಿಂದೆ ಕವಿಯ ವಿಭಿನ್ನ ದೃಷ್ಟಿಕೋನ ವಿರುವುದು ಕಾಣುತ್ತದೆ.

ಭಾರತೀಯ ಸಾಹಿತ್ಯದಲ್ಲಿ ರಾಮಾಯಣ ಕಥಾವಸ್ತು ಮೂರು ಕವಲಾಗಿ ಬೆಳೆದು ಬಂದಿದೆ. ಒಂದನೆಯದು ವಾಲ್ಮೀಕಿ ರಾಮಾಯಣದ ವೈದಿಕ ಪರಂಪರೆ; ಎರಡನೆಯದು ವಿಮಲಸೂರಿಯ ಜೈನಪರಂಪರೆ ; ಮೂರನೆಯದು ಬೌದ್ಧ ಜಾತಕಗಳಲ್ಲಿ ನಿರೂಪಿತವಾದ ಬೌದ್ಧಪರಂಪರೆ. ಕನ್ನಡ ಸಾಹಿತ್ಯದಲ್ಲಿ ರಾಮಚರಿತೆಯ ಕಥಾವಸ್ತುವನ್ನುಳ್ಳ ಪ್ರಥಮ ಕೃತಿ ನಾಗಚಂದ್ರನ ರಾಮಚಂದ್ರಚರಿತ ಪುರಾಣ. ನಾಗಚಂದ್ರನ ವೈಶಿಷ್ಟ್ಯವಿರುವುದು ರಾವಣಪಾತ್ರದಲ್ಲಿ . ಸೀತಾಪಹರಣ ರಾವಣನ ಜೀವನದಲ್ಲಿ ಮಹತ್ತರ ತಿರುವು. ತನ್ನ ಪೌರುಷ ಮತ್ತು ಆತ್ಮಬಲದಲ್ಲಿ ಬಲವಾದ ನಂಬಿಕೆಯಿದ್ದ ರಾವಣ ಹೆಣ್ಣು(ಸೀತೆ)ನ್ನು ನೋಡಿದ ಕೂಡಲೆ ವಿಚಲಿತನಾದುದು ಕೇವಲ ವಿಧಿಯ ಆಟವೇ ಸರಿ ಎಂಬುದು ಕವಿ ರಾವಣನ ಪರನಾಗಿದಾನೆ ಎಂಬುದಕ್ಕೆ

ಸಾಕ್ಷಿ. ಹಾಗಾಗಿಯೇ ಅವನಿಗೆ ತನ್ನ ಅಧಿದೇವತೆಯಾದ ಅವಲೋಕಿನಿಯ ಒಳ್ಳೆಯ ಮಾತುಗಳು ಹಿಡಿಸುವುದಿಲ್ಲ.

ಆ ಸಮಯದೊಳ್ ದಶಾಸ್ಯನೊಂದು ತಣ್ಣುಟಿಲ ತಾಣದೊಳ್ ಬಳಸಿಡಿಲ ಬಳಿವಿಡಿದು ಪೊಳೆವ ಕುಡುಮಿಂಚಿನಂತೆ ಬಲಭದ್ರನ ಕೆಲದೊಳಿದರ್ ಸೀತೆಯಂ ಕಂಡು-

ವ|| ಬಲೆ, ದೃಷ್ಟಿಗೆ ವಜ್ರದ ಸಂ
ಕಲೆ ಹೃದಯಕ್ಕೆ ನಿಪ ರೂಪವತಿ ಜಾನಕಿ ||ಕ||
ಣ್ಣೊಲದೊಳರೆ ಪದ್ಮಪತ್ರದ
ಜಲಬಿಂದುವಿನಂತೆ ಚಲಿತಮಾದುದು ಚಿತ್ತಂ ||೧||

ತಳತಳಿಸಿ ಪೊಳೆಯೆ ಸೀತೆಯು
ಚಳ ನಯನಂ ಖಚರ ಚಕ್ರವರ್ತಿಯ ಚಿತ್ತಂ ||
ಕೊಳದೊಳಗೆಳವಾಳೆ ತೆಲಂ
ಬೊಳೆವಂತೆ ಕಲಂಕಿ ಕದಡಿದತ್ತಾ ಕ್ಷಣದೊಳ್ ||೨||

ಉ || ಹಾರ ಮರೀಚಿ ಮಂಜರಿ ಸುಧಾರಸ ಧಾರೆ ಸುಧಾಂಶು ಲೇಖೆ ಕ |
ಪೂರ್ ಶಲಾಕೆ ನೇತ್ರಸುಖ ದಾಯಕಮಿದೊರೆತಲ್ಲವೀಕೆ ಶೃಂ ||
ಗಾರ ಸಮುದ್ರಮಂ ಕಡೆಯೆ ಹೃದ್ಯವನುಧ್ವವೆಯಾದಳೆಂದು ಕ |
ಣ್ಣಾರೆ ದಶಾಸ್ಯನೀಕ್ಷಿಸಿದನಿಕ್ಷಿಸಿ ಕಣ್ಣೆದಾರೆ ಮನ್ಮಥಂ ||೩||

ಮ||ಸ್ರ||ಪಲರುಂ ವಿದ್ಯಾಧರಸ್ತ್ರೀಯರುಮಮರಿಯರುಂ ಮಾನವ ಸ್ತ್ರೀಯರುಂತ

ಮೊಲವಿಂ ಮೇಲ್ವಾಯ್ದೊಡಂ ಮಂಬಗೆಯದ ಬಗೆಯೇನಾದುದೆಂದುದ್ದ
ತಂ ಮೂ ||
ದಲಿಸುತ್ತಂ ರೂಪಿನೊಳ್ ಮಚ್ಚರಿಸುವನೆನೆಗಂದಂಬನಂಬಟ್ಟುವನ್ನಂ |
ಪಲಕ್ಕಾಲಕ್ಕೇಸುವೆತ್ತಂ ದಶಮುಖನನುತಂ ಮನ್ಮಥಂ ಮಾಣದೆಚ್ಚಂ ||೪||

ನಡೆ ನಡುಗೋಲ್ವರಂ ದಶಮುಖಂ ಮನಮಂ ಸುಮನಶ್ಚಿಲೀಮುಖಂ
ನಡೆಗಿಡೆ ಕೀರ್ತಿ ಬಾರ್ತೆಗಿಡೆ ಲಕ್ಷ್ಮಿ ಮೊದಲಿಗಿಡೆ ಮಾನಸಿಕ್ಕೆ ನೇ ||
ಪರ್ಡುಗಿಡೆ ಸತ್ಯ ಶೌಚ ಗುಣ ಸಂಪದವೇಳಿದನಾದನೆನ್ನರುಂ |
ಕಿಡಿಮಸಿಯಾದವೋಲ್ ವಿಷಯ ಲೋಭದಿನೇಳಿದರಾಗದಿರ್ಪರೇ ||೨||

ವಿಹಿತಾಚಾರಮನನ್ವಯಾಗತ ಗುಣ ಪ್ರಖ್ಯಾತಿಯಂ ದುಷ್ಟ ನಿ |
ಗ್ರಹ ಶಿಷ್ಟ ಪ್ರತಿಪಾಲನ ಕ್ಷಮತೆಯಂ ಕೈ ಗಾಯದನ್ಯಾಂಗನಾ ||
ಸ್ಪಷ್ಟೆಯಂ ತಾಳ್ವಿದನಲೆ ಕಾಲವಶದಿಂ ಲಂಕೇಶ್ವರಂ ವಿಸ್ಮಯಾ |
ವಹಮಲ್ಪಭಿಯುಮೋರ್ಮೆ ಕಾಲವಶದಿಂ ಮರ್ಯಾದೆಯಂ ದಾಂಟದೇ ||೩||

ಅಂತು ಮನವೆಳೆದುವರಿಯೆ-
ಅವಿವೇಕಿ ದಶಮುಖಂ ದ್ಯು
ಷ್ಟಿ ವಿಷಾಹಿಯ ಪೆಡೆಯ ಮಣಿಶಲಾಕೆಗೆ ಕೈ ನೀ ||
ಡುವ ಗಾಂಪನಂತೆ ರಘುವೀ
ರ ವಧೂ ಜನಕಚೆಗೆ ಮನದೊಳೆಪಂ ತಂದಂ ||೪||

ಪರವಧುಗಾಸೆಗೆಯ್ದುಧಿಕ ಪಾತಾಕಮೊಂದು ರಘುಪ್ರವೀರನೊಳ್ |
ಧುರದೊಳಿದಿರ್ಚಿದೋಸರಿಸಿ ವಂಚಿಸಿ ಸೀತೆಯನುಯ್ಯ ಭೀತಿಯೊಂ ||
ದೆರಡೆಕೊಳಂ ಜಸಂ ಮಸುಳೆ ತನ್ನವಲೋಕಿನಿಯಂ ದಶಾನನಂ |
ಸ್ಮರಿಸಿದನಾತ್ಮ ಸತ್ಯಗುಣ ಹಾನಿಯೆ ಸೂಚಿಸದೇ ವಿನಾಶಮಂ ||೫||

ಅಂತು ನೆನೆಯಲೊಡಮವಲೋಕಿನೀವಿದ್ಯೆ ಮನದೊಡನೆ ಬಂದು
ಬೆಸನಾವುದೆನೆ ದಶಮುಖನಿವರಾರೆಂಬುದುಮಂಯೋಧ್ಯಾ
ಸಿಂಹಾಸನಕ್ಕಧಿಪತಿಯುಮಿಕ್ಷಾಕ್ಷು ವಂಶ ಸಂಭವನುಮಪ್ಪನರಣ್ಯ ತನೂಭವಂ
ದಶರಥ ನರನಾಥಂ ತದಪತ್ಯರಿವರೀಕಾಲದ ಬಲದೇವ ವಾಸುದೇವರ್
ದೇವತಾಧಿಷ್ಟಿತಂಗಳಪ್ಪ ವಜ್ರಾವರ್ತ ಸಾಗರಾವರ್ತ ಚಾಪ
ರತ್ನಂಗಳಿನಪ್ರಯತ್ನದಿಂ ಪಡೆದ ರಾಮಲಕ್ಷ್ಮಣರೆಂಬರ್, ಮಹಾಬಲ

ಪರಾಕ್ರಮರೀಕೆ ರಾಮನ ಮಹಾದೇವಿ ಮಿಥಿಲಾಪುರವರೇಶ್ವರನಪ್ಪ
ಹರಿವಂಶದಜನಕನ ತನೂಭವೆ ರಥನೂಪುರಚಕ್ರವಾಳಪುರಮ ನಾಳ್ವ
ಚಂಡಬಲ ಪರಾಕ್ರಮನಪ್ಪ ಪ್ರಭಾವಂಡಲನ ತಂಗ
ಸೀತಾದೇವಿಯೆಂಬಳೆಂಬುದುಮೀಕೆಯನೀತನಿಂದಗಲ್ಲು ಪ್ರಪಾಯಮಾವುದೆನೆ
ದೇವತೆ ಭಯಚಕಿತ ಚಿತ್ತೆಯಾಗಿ-

ಆರಯ್ಯೆ ವಿರೋಧಂ ಸಾ
ಧಾರಣ ಪುರುಷರೊಳಮುಚಿತಮಲ್ಪಧಿಕ ಬಲರ್ ||
ಕಾರಣಪುರುಷರಿವರ್ ನಿ
ಷ್ಕಾರಣವಿವರೊಳ್ ವಿರೋಧಮಂ ಮಾಡುವುದೇ ||೬||

ಕಾವ ಬೆಸಂ ನಿನ್ನದು ಸಕ
ಲಾವನಿಯನಧರ್ಮನಿರತರಂ ನಿಯಮಿಸಿ ನೀ ||
ನೀವಿಷಯಕ್ಕೆಱಗುವುದುಂ
ಕಾವರೆ ಕಣೆಗೊಂಡರೆಂಬ ನುಡಿಗಡೆಯಕ್ಕುಂ ||೭||

ಆನ್ನೆಯದಿಂ ನಡೆವವರಂ
ನೀನ್ನಿಯಮಿಸುವೈ ದಶಾಸ್ಯ ಪೆಣನಾವಂ ನಿ ||
ನ್ನನ್ನಿಯಮಿಸುವಂ ಮುನ್ನೀರ್
ಬೆನ್ನೀರೆನೆ ಬೆರಸಲಣ್ಣ ತಣ್ಣೀರೊಳವೇ ||೮||

ಎಂದು ತೆಣಿಯೆ ನುಡಿದುದರ್ಕೆ ಕಡುಮುಳಿದು-

ಕಂ|| ಮದನ ಯಶಃಪಟಹ ಧ್ವನಿ
ಪುದಿಯೆ ವಿಯಚ್ಚರನ ಕರ್ಣಮಂ ಹೃದಯ ||
ಕೈಯ್ದಿದುಡಿಲ್ಲ ದಿವ್ಯ ವಚನಂ
ಬಿದಿಯಂ ಮೀಱುಗುಮೆ ಪೆಣರ ಪೇಱ್ಪುದೇಶಂ ||೯||

ಕವಿ ಪರಿಚಯ

ನಾಗಚಂದ್ರ : ನಾಗಚಂದ್ರ ೧೧ನೇ ಶತಮಾನದ ಕೊನೆಯ, ೧೧೧೦ರ ಸುಮಾರಿನಲ್ಲಿ ಬದುಕಿದ್ದ ಕವಿ. ಈತನಿಗೆ 'ಅಭಿನವ ಪಂಪ' ಎಂಬ ಬಿರುದಿತ್ತು. ಚಾಲುಕ್ಯ ರಾಜನಿಂದಲೂ, ಹೊಯ್ಸಳ ಬಲ್ಲಾಳನಿಂದಲೂ ಸನ್ಮಾನ ಪಡೆದಿದ್ದನೆಂದು ತಿಳಿದುಬರುತ್ತದೆ. ಈತನ ಎರಡು ಕೃತಿಗಳು 'ಮಲ್ಲಿನಾಥ ಪುರಾಣಂ' ಮತ್ತು 'ರಾಮಚಂದ್ರ ಚರಿತ ಪುರಾಣಂ' (ಪಂಪ ರಾಮಾಯಣ). ಪಂಪರಾಮಾಯಣ ಕನ್ನಡದಲ್ಲಿ ದೊರೆತಿರಬಹುದಾದ ಮೊದಲನೇ ಜೈನರಾಮಾಯಣ ಕೃತಿಯಾಗಿದೆ. ಈ ಕೃತಿಯಲ್ಲಿ ಕವಿಯ ಕಲ್ಪನೆ, ಶೈಲಿ ಅತ್ಯುತ್ತಮ ಸ್ಥಿತಿಯನ್ನು ಮುಟ್ಟಿದೆ. ಇದು ಪಂಪಭಾರತ (ವಿಕ್ರಮಾರ್ಜುನ ವಿಜಯ)ದ ಮಾನ್ಯಕ್ಕೆ ಏರದಿದ್ದರೂ ಆ ಪ್ರಯತ್ನ ನಡೆದಿದೆ. ಆ ದೃಷ್ಟಿಯಲ್ಲಿ ಈತನಿಗೆ ಅಭಿನವಪಂಪ ಎಂಬ ಬಿರುದು ಸಾರ್ಥಕವಾಗಿದೆ.

ವಾಲ್ಮೀಕಿ ರಾಮಾಯಣದಲ್ಲಿ ರಾವಣ ಒಬ್ಬ ರಾಕ್ಷಸನೆಂಬಂತೆ ಚಿತ್ರಿಸಿದ್ದರೆ ಪಂಪರಾಮಾಯಣದಲ್ಲಿ ಒಬ್ಬ ಒಳ್ಳೆಯಮನುಷ್ಯನೆಂಬಂತೆ ಚಿತ್ರಿಸಿಗೊಂಡಿದ್ದಾನೆ. ಇವರ ಮೇಲೆ ವಿಮಲಸೂರಿಯ 'ಪಲಮಚರಿಯ' ಕೃತಿಯ ಪ್ರಭಾವವಿದೆ.

ಕಥಾ ಪದಗಳ ಅರ್ಥ :

ತಣ್ಣಮಿಲ-ತಂಪಾದ, ಚಳ-ಚಂಚಲ, ಎಳೆವಾಳೆ-ಮೀನು, ಅಮರಿಯರುಂ- ದೇವತೆಗಳು, ಮೇಲ್ವಯ್ಯೊಡಂ-ಬಲವಂತವಾಗಿ ಮೈಮೇಲೆ ಬಿದ್ದರೂ, ಅಂಬು- ಬಾಣ, ಎಚ್ಚು-(ಬಾಣ) ಬಿದು, ಅಬ್ಬಿ-ಸಮುದ್ರ, ವಿಷಾಹಿ-ವಿಷಸರ್ಪ, ಗಾಂಪ- ದಡ್ಡ, ಜಸ-ಯಶಸ್ಸು, ಮಸುಳೆ-ಮಸುಕಾಗಲು, ಮುನ್ನೀರ್ - ಸಮುದ್ರದ ನೀರು, ಬೆನ್ನೀರ್ - ಬಿಸಿನೀರು, ಬಿದಿ-ವಿಧಿ, ಪೆಜರ ಬೇರೆಯವರ

ಪ್ರಶ್ನೆಗಳು :

೧. ಸೀತೆಯನ್ನು ಕಂಡಾಗ ರಾವಣನ ಮನಸ್ಸಿನಲ್ಲಾದ ಭಾವನೆಗಳು ಎಂತಹವು? ತಿಳಿಸಿ.
೨. ಅಬ್ಬಿಯುಮೋರ್ವೆ ಕಾಲವಶದಿಂ ಮರ್ಯಾದೆಯಂ ದಾಂಟದೇ ಎಂದು ಹೇಳಿದುದರ ಹಿನ್ನೆಲೆಯನ್ನು ವಿವರಿಸಿ.
೩. ಅವಲೋಕಿನಿ ಮತ್ತು ರಾವಣರ ನಡುವೆ ನಡೆದ ಸಂವಾದವನ್ನು ತಿಳಿಸಿ.

*

೨. ವಚನಗಳು

ಆಶಯ :

ವಚನ ಎಂದರೆ ಮಾತು, ಪ್ರಮಾಣ ಎಂದು ಹಾಡಿದರೆ ಹಾಡಾಗುವ ಓದಿದರೆ ಗದ್ಯವಾಗುವ ಕನ್ನಡದ ವಿಶಿಷ್ಟ ಕಾವ್ಯ ಪ್ರಕಾರ ಇದು. ವಚನ ಸಾಹಿತ್ಯ ಚಳುವಳಿ ಎನ್ನುವಂತಾಗಿದ್ದು ಬದುಕಿನಲ್ಲಿ, ಸಾಹಿತ್ಯದಲ್ಲಿ ಹಾಗೂ ಆಧ್ಯಾತ್ಮದಲ್ಲಿ ಅಪೂರ್ವವಾದ ಸಾಧನೆಗಳಿಗೆ ಎಡೆಮಾಡಿಕೊಟ್ಟಂತಹ ಕಾಲಮಾನ. ಕಾಯಕ-ದಾಸೋಹಗಳ ಪರಿಕಲ್ಪನೆಯಲ್ಲಿ ಬದುಕು ಮತ್ತು ಧರ್ಮವನ್ನು ಸಂಲಗ್ನಗೊಳಿಸಿಕೊಂಡು ಕಲ್ಯಾಣ ರಾಜ್ಯದ ಕನಸನ್ನು ನನಸು ಮಾಡಲು ಪಣತೊಟ್ಟ ಆಂದೋಲನದವರು. ಆಳು-ಅರಸ, ಉಚ್ಚ-ನೀಚ ಎಂಬ ಬೋಧಗಳನ್ನು ಕಳಚಿ ಮಾನವ ಪ್ರೀತಿಯನ್ನು ಭಿತ್ತಿದ ಕಾಲವದು. ದೇವರದಾಸಿಮಯ್ಯ, ಬಸವಣ್ಣ, ಅಲ್ಲಮಪ್ರಭು, ಮಹಾದೇವಿಯಕ್ಕ, ಅಂಬಿಗರ ಚೌಡಯ್ಯ ಇವರಲ್ಲ ಸಮಕಾಲೀನರು ನಿಜವಾದ ಅರ್ಥದಲ್ಲಿ ಶರಣ ಧರ್ಮವನ್ನು ಬಾಳಿ ಬೆಳಗಿದ ಚೇತನರು. ಇಡೀ ವಚನ ಸಾಹಿತ್ಯವನ್ನು ಕೇವಲ ಧಾರ್ಮಿಕ ನೆಲೆಗಟ್ಟಿನ ದೃಷ್ಟಿಯಲ್ಲಿ ನೋಡುವುದಕ್ಕಿಂತ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಹಾಗೂ ಸಾಂಸ್ಕೃತಿಕ ದೃಷ್ಟಿಕೋನದಿಂದ ನೋಡುವುದು ವೈಚಾರಿಕ ಓದು ಎನಿಸಿಕೊಳ್ಳುತ್ತದೆ.

ಬಸವಣ್ಣ

ವಿಷಯವೆಂಬ ಹಸುರನೆನ್ನ ಮುಂದೆ ತಂದು ಪಸರಿಸಿದೆಯಯ್ಯ ಪಶುವೇನ ಬಲ್ಲದು? ಹಸುರೆಂದೆಳಸುವುದು ವಿಷಯ ರಹಿತನ ಮಾಡಿ ಭಕ್ತಿರಸವ ದಣಿಯೆ ಮೇಯಿಸಿ

ಸುಬುದ್ಧಿ ಯೆಂಬುದಕವನೆರೆದು
ನೋಡಿ ಸಲಹಯ್ಯಾ ಕೂಡಲ ಸಂಗಮದೇವಾ

ಎನ್ನ ಚಿತ್ತವು ಅತ್ತಿಯ ಹಣ್ಣು ನೋಡಯ್ಯ
ವಿಚಾರಿಸಿದೊಡೇನೂ ಹುರಳಿಲ್ಲವಯ್ಯಾ!
ಪ್ರಪಂಚದ ಡಂಬಿನಲ್ಲಿ, ಎನ್ನನೊಂದು ರೂಹು ಮಾಡಿ
ನೀವಿರಿಸಿದಿರಿ ಕೂಡಲಸಂಗಮದೇವಾ

ಸುರರ ಬೇಡಿದರಿಲ್ಲ! ನರರ ಬೇಡಿದರಿಲ್ಲ!
ಬರಿದೆ ಧೃತಿಗೆಡಬೇಡ ಮನವೇ
ಆರನಾದರೆಯೂ ಬೇಡಿ ಬೇಡಿ
ಬರಿದೆ ಧೃತಿಗೆಡಬೇಡ ಮನವೇ!
ಕೂಡಲಸಂಗಮದೇವರನಲ್ಲದೆ ಆರ ಬೇಡಿದರಿಲ್ಲ ಮನವೇ!

ಏನನೋದಿ, ಏನ ಕೇಳಿ, ಏನ ಮಾಡಿಯೂ
ಫಲವೇನು ನಿನ್ನವರೊಲಿಯದನ್ನಕ?
ಶಿವ ಶಿವ ಮಹಾದೇವ!
ಬಾಳಿಲ್ಲದವಳ ಒಲೆಯಂತಾಯಿತ್ತೆನಗೆ
ಕೂಡಲ ಸಂಗಮ ದೇವ.

ಮುನ್ನೂರರುವತ್ತು ದಿನ ಶರವ ಮಾಡಿ,
ಕಳನೇರಿ ಕೈಮರೆದಂತಾಯಿತ್ತೆನ್ನ ಭಕ್ತಿ!
ಎನಿಸು ಕಾಲ ಲಿಂಗಾರ್ಚನೆಯ ಮಾಡಿ
ಏವೆನಯ್ಯ ಮನದಲ್ಲಿ ದೃಢವಿಲ್ಲದನ್ನಕ?

ಅಕ್ಕಮಹಾದೇವಿ

ಕಿಚ್ಚಿಲ್ಲದ ಬೇಗೆಯಲಿ ಬೆಂದೆನವ್ವ
ಏರಿಲ್ಲದ ಗಾಯದಲಿ ನೊಂದೆನವ್ವ
ಸುಖವಿಲ್ಲದ ಧಾವತಿಗೊಂಡೆನವ್ವ
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನಂಗೊಲಿದು ಬಾರದ ಭವಂಗಳಲಿ ಬಂದೆನವ್ವ

ಸಾವಿಲ್ಲದ ಕೇಡಿಲ್ಲದ ರೂಹಿಲ್ಲದ ಚೆಲುವಂಗಾನೊಲಿದೆನವ್ವಾ
ಎಡೆ ಇಲ್ಲದ ಕಡೆ ಇಲ್ಲದೆ ತೆರೆಹಿಲ್ಲದ ಕುರುಹಿಲ್ಲದ ಚೆಲುವಂಗಾನೊಲಿದೆ
ಎಲೆ ಅವ್ವಾ, ನೀನು ಕೇಳಾ ತಾಯೆ, ಭವವಿಲ್ಲದ ಭಯವಿಲ್ಲದ
ನಿರ್ಭಯ ಚೆಲುವಂಗೊಲಿದೆ ನಾನು ಕುಲಸೀಮೆ ಇಲ್ಲದ
ನಿಸ್ಸೀಮೆ ಚೆಲುವಂಗೆ ನಾನೊಲಿದೆ-ಇದು ಕಾರಣ
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ ಚೆಲುವ ಗಂಡನೆನಗೆ
ಈ ಸಾವ ಕೆಡುವ ಗಂಡರನೊಯ್ಯು ಒಲೆಯೊಳಿಗಿಕ್ಕು

ಹಸಿವಾದರೆ ಊರೊಳಗೆ ಭಿಕ್ಷಾನ್ನಂಗಳುಂಟು
ತೃಷೆಯಾದರೆ ಕೆರೆ-ಬಾವಿ-ಹಳ್ಳಿಗಳುಂಟು
ಶಯನಕ್ಕೆ ಹಾಳು ದೇಗುಲವುಂಟು
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನಯ್ಯ ಆತ್ಮ ಸಂಗಾತಕ್ಕೆ ನೀನೆನಗುಂಟು

ಅರಿಯದವರೊಡನೆ ಸಂಗವ ಮಾಡಿದರೆ
ಕಲ್ಲಹೊಯ್ದು ಕಿಡಿಯ ತೆಗೆದುಕೊಂಡಬಂತೆ!
ಬಲ್ಲವರೊಡನೆ ಸಂಗವ ಮಾಡಿದರೆ
ಮೊಸರ ಹೊಸೆದು ಬೆಣ್ಣೆಯ ತೆಗೆದುಕೊಂಬಂತೆ
ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನಯ್ಯ, ನಿಮ್ಮ ಶರಣರ ಸಂಗ
ಕರ್ಪುರ ಗಿರಿಯ ಉರಿಯಕೊಂಡಂತೆ

ಅಂಬಿಗರ ಚೌಡಯ್ಯ

ಗಾಳಿ ಬಿಟ್ಟಲ್ಲಿ ತೂರಿಕೊಳ್ಳರಯ್ಯ
 ಗಾಳಿ ನಿನ್ನಧೀನವಲ್ಲವಯ್ಯಾ
 ನಾಳೆ ತೂರಿಹೆನೆಂದರೆ ಇಲ್ಲವಯ್ಯಾ
 ಶಿವಶರಣರ ಎಂಬುದೊಂದು ಗಾಳಿ ಬಿಟ್ಟಲ್ಲಿ
 ಬೇಗ ತೂರೆಂದ ಅಂಬಿಗರ ಚೌಡಯ್ಯ

ಬಡತನಕ್ಕೆ ಉಂಬುವ ಚಿಂತೆ
 ಉಣಲಾದರೆ ಉಡುವ ಚಿಂತೆ
 ಉಡಲಾದರೆ ಇಡುವ ಚಿಂತೆ
 ಇಡಲಾದರೆ ಹೆಂಡಿರ ಚಿಂತೆ
 ಹೆಂಡಿರಾದರೆ ಮಕ್ಕಳ ಚಿಂತೆ
 ಮಕ್ಕಳಾದರೆ ಬದುಕಿನ ಚಿಂತೆ
 ಬದುಕಿದರೆ ಕೇಡಿನ ಚಿಂತೆ
 ಕೇಡಾದರೆ ಮರಣದ ಚಿಂತೆ

ಇಂತೀ ಹಲವು ಚಿಂತೆಯಲ್ಲಿ ಇದ್ದವರನು ಕಂಡೆನು
 ಶಿವನ ಚಿಂತೆಯಲ್ಲಿದ್ದರೊಬ್ಬರನು ಕಾಣೆನೆಂದಾತ ನಮ್ಮ
 ಅಂಬಿಗರ ಚೌಡಯ್ಯ ನಿಜಶರಣನು.

ಕವಿ ಪರಿಚಯ

ಬಸವಣ್ಣ : ೧೨ ನೇಶಮಾನದಲ್ಲಿದ್ದ ಶರಣ ಪ್ರಮುಖರು, ಪ್ರಸಿದ್ಧ ವಚನಕಾರರು, ಸಮಾಜ ಸುಧಾರಕರು. ಈ ಶತಮಾನದಲ್ಲಿ ಕರ್ನಾಟಕದಲ್ಲಿ ನಡೆದ ಸಾಮಾಜಿಕ ಮತ್ತು ಧಾರ್ಮಿಕ ಮಹಾಕ್ರಾಂತಿಯ ನೇತಾರ. ಬಿಜಾಪುರ ಜಿಲ್ಲೆಯ ಬಾಗೇವಾಡಿ ಬಸವಣ್ಣನವರ ಜನ್ಮಸ್ಥಳ. ಬಿಜ್ಜಳನ ರಾಜ್ಯದ ಭಂಡಾರಿಯಾಗಿದ್ದ ಹಾಗೆ ರಾಜ್ಯದ ಭಕ್ತಿ ಭಂಡಾರಿಯೂ ಆಗಿದ್ದವರು. ವ್ಯಕ್ತಿಯ ಯೋಗ್ಯತೆಯನ್ನು ಹುಟ್ಟಿನಿಂದಲೇ ಅಳೆಯುವುದನ್ನು ಬಿಟ್ಟು ಆತನ ಗುಣದಿಂದ ನಿರ್ಧರಿಸಬೇಕೆಂದು ಸಾರಿದರು. ಇವರ ೧೦೦೦ ಕ್ಕೂ ಹೆಚ್ಚು ವಚನಗಳು ದೊರೆತಿವೆ. 'ಕೂಡಲ ಸಂಗಮದೇವ' ಇವರ ವಚನಗಳ ಅಂಕಿತ.

ಅಕ್ಕಮಹಾದೇವಿ : ಅಕ್ಕಮಹಾದೇವಿ ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲೆಯ ಶಿಕಾರಿಪುರ ತಾಲ್ಲೂಕಿನ ಉಡುತಡಿಯಲ್ಲಿ ಜನಿಸಿದಳು. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮೊದಲ ಕವಿಯೆತ್ತಿ ಮತ್ತು ವಚನಗಾರ್ತಿ. ೧೨ ನೇ ಶತಮಾನದಲ್ಲಿ ಪ್ರಪ್ರಥಮವಾಗಿ ಮಹಿಳೆಯರ ಪ್ರತಿನಿಧಿಯಾಗಿ ಅಭಿವ್ಯಕ್ತಿಯಲ್ಲಿ ಪುರುಷ ಸಮಾಜವನ್ನು ಪ್ರತಿಭಟಿಸಿದವಳು. 'ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ' ಎಂಬ ಅಂಕಿತದಿಂದ ವಚನಗಳನ್ನು ರಚಿಸಿ ಅಂದಿನ ಜನಸಾಮಾನ್ಯರ ಗಮನಸೆಳೆದಳು. 'ಯೋಗಾಂಗ ತ್ರಿವಿಧಿ' ಇವರ ಪ್ರಮುಖ ಕೃತಿ. ಅವರ ಕಾವ್ಯದ ಗುಣವೆಂದರೆ ಒಂದು-ವೇದನೆ, ಮತ್ತೊಂದು ನಿವೇದನೆ. ಅಕ್ಕಮಹಾದೇವಿಯಲ್ಲಿ ಸಮಾಜ ವಿಮರ್ಶೆಗಿಂತ ಸ್ವ ವಿಮರ್ಶೆಯೇ ಜಾಸ್ತಿ.

ಅಂಬಿಗರ ಚೌಡಯ್ಯ : ೧೨ನೇ ಶತಮಾನದ ವಚನಕಾರರಲ್ಲಿ ಅತ್ಯಂತ ವಿಶಿಷ್ಟವಾದವನು. ವೃತ್ತಿಯಿಂದ ಅಂಬಿಗ. ಪ್ರವೃತ್ತಿಯಲ್ಲಿ ಅನುಭಾವಿ. ತನ್ನ ಕಾಯಕ ಮತ್ತು ವ್ಯಕ್ತಿ ನಾಮವಾದ 'ಅಂಬಿಗರ ಚೌಡಯ್ಯ' ಎಂಬುದೇ ಇವರ ವಚನಗಳ ಅಂಕಿತವಾಗಿದೆ. ಈತನ ವಚನಗಳ ವಸ್ತು, ಭಾಷೆ, ಶೈಲಿಗಳನ್ನು ಗಮನಿಸಿದರೆ ಇವನೊಬ್ಬ ಕೆಚ್ಚಿದೆಯ ನಿಷ್ಠೂರ ಪ್ರಕೃತಿಯ, ಗ್ರಾಮ್ಯ ಮನೋಧರ್ಮದ ವಚನಕಾರ ಎಂಬುದು ಸ್ಪಷ್ಟವಾಗುತ್ತದೆ. ಇವರ ವಚನಗಳಲ್ಲಿ ಕಂಡು ಬರುವ ಸಮಾಜ ಅವ್ಯವಸ್ಥೆಯ ಚಿತ್ರ ಬೇರೆ ವಚನಕಾರರಲ್ಲಿ ಕಂಡುಬರುವುದಿಲ್ಲ. ಅಂಬಿಗರ ಚೌಡಯ್ಯನ ವಚನಗಳ ಸಮರ್ಥ ಸಾದಕವಾದ ಸತ್ಕೋಪದಿಂದ ಹೊಮ್ಮಿದವು ಆಗಿವೆ.

ಕಠಿಣ ಪದಗಳ ಅರ್ಥ :

ಕಳವೆ-ಭತ್ತ, ನಚ್ಚಲು-ನಂಬಲು, ವಿಷಯ-ಇಂದ್ರಿಯಸುಖ, ರೂಹು-ರೂಪು, ಓಗರ-ಅನ್ನ, ತೃಷೆ-ಬಾಯಾರಿಕೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಭಕ್ತನೊಬ್ಬನ ಅಂತರಂಗದ ತೊಳಲಾಟ ಬಸವಣ್ಣನ ವಚನಗಳಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಬಗೆಯನ್ನು ತಿಳಿಸಿ.
೨. ಮಹಾದೇವಿಯು ಕೆಚ್ಚಿನಮಲ್ಲಿಕಾರ್ಜುನನನ್ನು ಆತ್ಮ ಸಂಗಾತನನ್ನಾಗಿ ಭಾವಿಸಿದ ಬಗೆಯನ್ನು ವಿವರ

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೨. ಅನ್ನಯಜ್ಞ

- ದ.ರಾ. ಬೇಂದ್ರೆ

ಆಶಯ :

ಪ್ರಾಣಿಯು ಪ್ರಾಣಿಗಳೆಂದೂ ಏನೇನು ಸೇವಿಸುವುದೋ ಅದೆಲ್ಲವೂ ಅನ್ನ, ಗಾಳಿಯೂ ಅನ್ನ, ನೀರೂ ಅನ್ನ, ಹಸಿವು ತಣಿಯುವುದೇ ಆಹಾರದಿಂದ. ಅಂತಹ ಆಹಾರಕ್ಕಾಗಿ ಹಾಹಾಕಾರ ಎದ್ದಾಗ ಅನ್ನದ ಮಹಿಮೆ ಗೊತ್ತಾಗುತ್ತದೆ. ಮನಸ್ಸು ಮತ್ತು ದೇಹ ಆರೋಗ್ಯವಾಗಿರಲು ಆಹಾರವೇ ಜೀವಾಳ. ಅಂಥ ಆಹಾರ ದಕ್ಕದಿದ್ದಾಗ ಉಂಟಾಗುವ ಕೋಲಾಹಲ ಹೇಳತೀರದು. ಕವಿ ಈ ಪದ್ಯದಲ್ಲಿ ಅನ್ನದ ಮಹತ್ವವನ್ನು, ಬದುಕಿನ ಗಮ್ಯವನ್ನು ಕುರಿತು ವಿವರಿಸಲು ಪ್ರಯತ್ನ ಪಟ್ಟಿದ್ದಾರೆ.

ಕೂಸುಗಳಿಗೆ ಹಾಲು ಇಲ್ಲ, ಪಶುಬಲಿಯೇ ನಡೆದಿದೆ
ಕಾಳು ಇದೆ ಕೂಳು ಇಲ್ಲ, ಹಣದ ಹುಚ್ಚು ಹಿಡಿದಿದೆ.
ಕತ್ತಲಲ್ಲಿ ಬೆಳಕೆ ಇಲ್ಲ, ಜಗಕೆ ಬೆಂಕಿ ಹತ್ತಿದೆ.
ಎಲ್ಲ ಇದೆ ಎಲ್ಲ ಇಲ್ಲ, ಇಲ್ಲೆ ಸುತ್ತುಮುತ್ತಿದೆ

ಸಾಕು ಎಂಬುವಂತೆ ನೀಡು, ಬೇಕು ಎಂಬ ಹೊತ್ತಿಗೆ
ಬೆಣ್ಣೆ ಎಣ್ಣೆ ಎರೆಯಬನ್ನಿ ಹಸಿದ ಹೊಟ್ಟೆ-ನೆತ್ತಿಗೆ.

ಬರುವ ಸಾವ ನೆನೆದು ಕೆಲವು ತಿನ್ನುತಿಹವು ಹೆಚ್ಚಿಗೆ
ಕಾಳು ಸಾಲದೀಗ ಜನದ ಇರುವ ಹೊಟ್ಟೆಕಿಚ್ಚಿಗೆ.
ಇದ ಕಂಡರೂ ಕಂಡು ಕೂಡ ಏಳಬೇಡ ರೊಚ್ಚಿಗೆ.
ಇದರ ಹೊಟ್ಟೆಯಲ್ಲಿ ಹುಟ್ಟತೀ ಪಿಶಾಚಿ ಹುಚ್ಚಿಗೆ

ಬಾಳೆಯಲ್ಲಿ ತಾಳೆಬೇಕು ಬದುಕಬೇಕು ಎಂದರೆ
ಜೀವವೆ ಸಾವಾಗಬಹುದು ಬಚ್ಚಬರಿಯೆ ನೊಂದರೆ.

ಖಣವು ರಣವು, ಜನವು ಹೆಣವು ಸಾವಿಗಾಗಿ ದುಡಿವರೇ?
ಯಾರ ಬಾಳಿಗಾಗಿ ಯಾರೊ ಯಾವೊ ಕೈಗೆ ಮಡಿವರೇ?
ಕಾವ ಕೈಯ್ಯೆ ಕೊಲ್ಲುತಿಹವು! ಮರಣದತ್ತ ನಡೆವರೇ?
ಸಾವಿಗಾಗಿ ತಪಿಸುವವರು ಬಾಳ-ಬೀಜ ಹಿಡಿವರೇ?

ಕಣ್ಣೀರಿನ ಕಡಲ ನಡುವೆ ತೇಲುತ್ತಿಹವು ನೆಲಗಳು
ತಾಯಿ-ಹಾಲು ಕುದಿಯುತ್ತಿಹುದು ಕೆಂಪೇರಲು ಜಲಗಳು.

ಕವಿ ಪರಿಚಯ

ದ.ರಾ. ಬೇಂದ್ರೆ : ಬೇಂದ್ರೆಯವರು ಕನ್ನಡ ಸಾಹಿತ್ಯದಲ್ಲಿ 'ವರಕವಿ' ಎಂದೇ ಪ್ರಸಿದ್ಧರಾದವರು. ಇವರ ಕಾವ್ಯನಾಮ ಅಂಬಿಕಾತನಯ ದತ್ತ. ಅಧ್ಯಾಪಕರಾಗಿದ್ದು ಇವರು ತರುವಾಯ ಧಾರವಾಡದ ಆಕಾಶವಾಣಿ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕರಾಗಿ ಕಾರ್ಯನಿರ್ವಹಿಸಿದವರು. ಉತ್ತರ ಕರ್ನಾಟಕದ ಆಡುಭಾಷೆಯನ್ನು ಜನಪದ ಕಾವ್ಯಮಟ್ಟವನ್ನು ಬಳಸಿಕೊಂಡು ಕವಿತೆಯಲ್ಲಿ ಸಹಜತೆಯನ್ನು ಗರಿಷ್ಠಮಟ್ಟದಲ್ಲಿ ಸಹ್ಯದಯರಿಗೆ ಉಣಬಡಿಸಿದವರು ಶ್ರೀಯುತರು. ನಾಟಕ, ವಿಮರ್ಶೆ, ಪ್ರಬಂಧಗಳ ಜೊತೆಗೆ ಕೃಷ್ಣ ಕುಮಾರಿ, ಗರಿ, ನಾದಲೀಲೆ, ಉಯ್ಯಾಲೆ, ಸಖೀಗೀತ, ಅರಳುಮರಳು, ನಾಕುತಂತಿ, ಹೃದಯ ಸಮುದ್ರ ಮುಂತಾದ ಕವನ ಸಂಕಲನವನ್ನು ರಚಿಸಿದ್ದಾರೆ. ಇತರ ಪ್ರಶಸ್ತಿಗಳ ಜೊತೆಗೆ ಭಾರತದ ಅತ್ಯತ್ತಮ ಪ್ರಶಸ್ತಿಯಾದ ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿಯನ್ನು ಪಡೆದಿದ್ದಾರೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಅನ್ನದ ಮಹತ್ವ ಮತ್ತು ಅನ್ನದ ಅನಿವಾರ್ಯವನ್ನು ಕವಿ ಹೇಳುತ್ತಿರುವ ಪರಿಯನ್ನು ವಿವರಿಸಿ.
೨. ಅನ್ನದ ವಿವಾದದಲ್ಲಿ ನಡೆಯುತ್ತಿರುವ ರಾಜಕೀಯ ವ್ಯವಹಾರದ ವಿಡಂಬನೆಯನ್ನು ತಿಳಿಸಿ.

೪. ಸಂಪರ್ಕ

- ಗಂಗಾಧರ ಚಿತ್ತಾಲ

ಆಶಯ :

ಜೀವ ಸೃಷ್ಟಿ ಜಗತ್ತಿನ ರೋಮಾಂಚಕ ಕುತೂಹಲ. ಅದು ಪ್ರಾಣಿ, ಪಕ್ಷಿ, ವೃಕ್ಷ ಲೋಕದಲ್ಲಿಯೇ ಆಗಲಿ, ಆ ರೋಮಾಂಚನ ಪೂರ್ಣ ಅದ್ಭುತ ಲೋಕ ಸೃಷ್ಟಿಯೇ ಆಗುತ್ತದೆ. ಅದು ಜೀವವಿರುವ ಪ್ರಾಣಿ-ಪಕ್ಷಿಯಾಗಲೀ ಅಥವಾ ನಿರ್ಜೀವದಂತೆ ಕಾಣುವ ಧಾನ್ಯಗಳಾಗಲಿ ಸೃಷ್ಟಿ ಕ್ರಿಯೆಗೆ ತೆರೆದುಕೊಳ್ಳುವ ಅಮೋಘ ಕ್ರಿಯೆ ನಿಜವಾಗಿಯೂ ಅದ್ಭುತ ರೋಮಾಂಚನವೇ ಸರಿ. ಈ ಪದ್ಯದಲ್ಲಿ, ಶಾಲೆಯಲ್ಲಿ ಶಿಕ್ಷಕರು ಹೇಳಿದಂತೆ ಮಕ್ಕಳು ತಂತಮ್ಮ ಮನಸ್ಸಿನಲ್ಲಿ ಖಾಲಿಟನ್ನುಗಳಲ್ಲಿ ಬೀದಿ ಧೂಳುಗಳನ್ನು ತುಂಬಿ, ಮನೆಯಲ್ಲಿಯೇ ಇದ್ದ ಗೋಧಿ, ಜೋಳ, ಭತ್ತ ಇತ್ಯಾದಿ 'ಬೀಜ'ಗಳನ್ನು ಹಾಕಿ ಅವು ಹುಟ್ಟುವುದನ್ನೇ ನಿರೀಕ್ಷಿಸುತ್ತ ಇದ್ದ ರೀತಿ ಅಚ್ಚರಿ ಮೂಡಿಸಿದ್ದು ಇದನ್ನೆಲ್ಲ ನೋಡುತ್ತಿದ್ದ ಲೇಖಕರಿಗೇ ಮೋಜೆನ್ನಿಸಿ ಬೆಳೆಯುತ್ತಿರುವ ಎಳೆ ಪೈರನ್ನು ಬೆರಳಾಡಿಸಿ ಋಷಿ ಪಟ್ಟಿ ಸಂದರ್ಭ ಜೀವನದ ಅಪೂರ್ವ ಕ್ಷಣವಲ್ಲದೆ ಮತ್ತೇನು?

ಕಳೆದ ವಾರ, ಕುಣಿಯುತ್ತಲೇ ಬಂದಳು ನಮ್ಮ ಸರಿತೆ!

ಸಾಲೆಯಲ್ಲಿ ಹೇಳಿದರಂತೆ

'ಒಂದಿಷ್ಟು ಗೋಧಿ, ಒಂದಿಷ್ಟು ಜೋಳ, ಭತ್ತ,

ಹೀಗೆಯೇ ಮತ್ತೇನೇನೂ

ಮನೆಯಲ್ಲೇ ನೆಟ್ಟು ಸಸಿ ಬೆಳೆಸಿ ತರಬೇಕು.

ಸರಿ, ಶುರುವಾಯ್ತು ಮಕ್ಕಳೋಡಾಟ, ಲಗುಬಗೆ, ಗಲಭೆ

ನಾವಿರುವ ಐದನೇ ಮಜಲಿನೆತ್ತರದಲ್ಲೆ ಭರದ ಬಿತ್ತನೆ ಕೆಲಸ!

ಮೋಜೆನಿಸಿ ನೋಡುತ್ತ ಕುಳಿತೆ-

ಹೊಲಗದ್ದೆ ಕಾಣದೀ ಮರಿ-ಕೃಷೀವಲರಲ್ಲ

ಖಾಲಿ ಟಿನ್ನುಗಳಲ್ಲಿ ಬೀದಿ ಧೂಳನು ತಂದು ಪಾತಿ ಕಟ್ಟಿ,

ಸುಕ್ಕಿದೊಣಕಲು ಬೀಜವಿಷ್ಟು ಹೂಳಿ,

ಬಾಟ್ಟಿ ನೀರಿನಲೆ ಪರ್ಜನ್ಯ ಸುರಿಸಿ,

ಕೃತಕೃತ್ಯರಂತೆ ಸುಗ್ಗಿ ಕೆಲಸ ಕಾಣುತ್ತ ನಿಂತ ಮುಗ್ಧರೀವಿ!

ಐದಾರು ದಿನ, ಬೆಳಗ್ಗೆ ಎದ್ದು ಕೂತರು

ಯಾವ ಸುದ್ದಿ ಸುಳಿವೂ ಇಲ್ಲ ಮೊದ್ದು ಮಣ್ಣಲ್ಲಿ.

ಮೊನ್ನೆ ಮಾತ್ರ,

ಒಂದೆರಡು ಕಣ ಅಲ್ಲಿ ಇಲ್ಲಿ ಅಲುಗಿದ ಕುರುಹು.

ನಿನ್ನೆಯೋ

ಒಳಗಿನೊಳಗೇ ಏನೂ

ಮೈಮುರಿದು ನಿದ್ದೆ ತಿಳಿದೇಳ್ಳ ಥರ

ಇಂದೂ-----

ಕಣ್ಣಮುಂದೇ ತೆರೆದ ಅದ್ಭುತೋದ್ಭವ ಪ್ರಹರ!

ಚಿಣ್ಣರೊಲು ದೂಡಿ ಕೊಂಬೂದಿ ಹಣೆಕಿಕ್ಕಿ

ಇಣೆಕಿವೆ ಸುತ್ತ ನೂರಾರು ಅಂಕುರ!

ನೀರ್ಮಣ್ಣ ಆರೈಕೆಗೆದ್ದ ಆಗಂತುಕರ

ಈ ಸೋಜಿಗದ ಸುತ್ತ ನೆರೆದ ಮಕ್ಕಳ ಮಧ್ಯೆ

ಸೇರಿ ನಾನೂ ಕುಳಿತೆ, ಮೈಮರೆತೆ ಮಗುವಾಗಿ.

ನಿಯಾಳಿಸುತ ಕುಳಿತೆ

ಮುದ್ದಾದ ಮೊಳಕೆಗಳ ಹಸುಳೆ ಮಿದು ನಯ ನುಣುಪ.

ತೊರೆಯ ಅಕ್ಕರೆಯೊರೆತೆ

ಹತ್ತಿರಕೆ ಬಾಗಿದೆ. ತಟ್ಟಿ ಬೆರಳಾಡಿಸಿದೆ. ಋಷಿಪಟ್ಟಿ.

ಕುತೂಹಲದಿಂದ

ಬದಿಯ ಮಣ್ಣನ್ನಿಷ್ಟು ಸರಿಸಿ ನೋಡಿದೆ-

ಹಿಗ್ಗಿ ದುಂಡಗೆ ಗಬ್ಬವಾಗಿ ಬಿರಿದಿವೆ ಬೀಜ:

ಕೆಳಕ್ಕೆ ಬಾಯೂರಿದಲ್ಲಿ ಇಳಿಸಿವೆ ಬೇರು-ಸೂಜಿಮೊನೆ ಐದಾರು
ಒಡಲು ಬಿರಿದಲ್ಲಿ ಮೇಲಕ್ಕೆ ಕಳಿಸಿವೆ ದೇಟು ಸಸಿಯ ಮೂಲಸ್ತಂಭ!
ಖಾಲಿ ಟಿನ್ನುಗಳ ಬೀದಿ ಧೂಳಲ್ಲು ಮೈ ತಳೆದ ಸೃಜನದೀ ಕೌತುಕವ
ನಿಯಾಳಿಸುತ ಕುಳಿತೆ, ಸೋಕಿ-ಸೋಕಿ-ಬೆರಳಾಡಿಸಿದೆ.

ಉರದಲುಮ್ಮಳ, ಮತ್ತೆ ಮತ್ತೆ ಜೀಕಳಿ ಪುಳಕ

ಇಷ್ಟು ಹತ್ತಿರದ ಜೀವ ಸೃಷ್ಟಿ ಸಂಪರ್ಕಕ್ಕೆ !

ಕವಿ ಪರಿಚಯ

ಗಂಗಾಧರ ಚಿತ್ತಾಲ : ಗಂಗಾಧರ ಚಿತ್ತಾಲರು ಉತ್ತರ ಕನ್ನಡ ಜಿಲ್ಲೆಯ ಗೋಕರ್ಣದ ಹನೇಹಳ್ಳಿಯವರು. ಡೈರೆಕ್ಟರ್ ಆಫ್ ಆಡಿಟ್ಸ್ ಆಗಿ ಲಂಡನ್‌ನಲ್ಲಿ ಸೇವೆ ಸಲ್ಲಿಸಿ ನಿವೃತ್ತರಾದರು. ಚಿತ್ತಾಲರು ಕಾಲದ ಕರೆ, ಮನುಕುಲದ ಹಾಡು, ಹರಿವ ನೀರಿದು, ಸಂಪರ್ಕ ಮುಂತಾದ ಕವನ ಸಂಕಲನಗಳನ್ನು ಬರೆದು ಕಾವ್ಯ ಜಗತ್ತನ್ನು ಶ್ರೀಮಂತಗೊಳಿಸಿದ್ದಾರೆ. ಇಂಥ ಅಂತರಂಗದ ಕವನಗಳನ್ನು ನೀಡಿದ ಚಿತ್ತಾಲರು ೧೯೮೭ ರಲ್ಲಿ ಪಾರ್ಕಿನ್‌ಸನ್ ಕಾಯಿಲೆಯಿಂದ ನಮ್ಮನ್ನಗಲಿದ್ದು ದುರಂತವೇ ಸರಿ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಮಕ್ಕಳ ಕೃಷಿಯ ಋಷಿಯನ್ನು ವಿವರಿಸಿ.

೨. ಮಕ್ಕಳ ಕೃಷಿಯ ಚಟುವಟಿಕೆಯನ್ನು ಕಂಡ ಕವಿ ಸಂಭ್ರಮವನ್ನು ತಿಳಿಸಿ.

*

ಪರಿವಿಡಿ

I. ಕಾವ್ಯಭಾಗ

೧. ಸಾಹಸಧನಂ ದುರೋಧನಂ - ರನ್ನ ೧-೮
೨. ಬೆಳಗೆ ಕನ್ನಡಿಯೆನಿಸಿತ್ತಯ್ಯಾ - ವಚನಕಾರರು ೯-೧೨
೩. ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ - ದ.ರಾ. ಬೇಂದ್ರೆ ೧೩-೧೬
೪. ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು - ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್ ೧೭-೨೧

II . ಕಥಾಸಾಹಿತ್ಯ

೧. ಮೋಚಿ - ಭಾರತೀಪ್ರಿಯ ೨೨-೩೦
೨. ನಿರಾಕರಣೆ - ವೀಣಾ ಶಾಂತೇಶ್ವರ ೩೧-೩೯
೩. ಕೂರ್ಮಾವತಾರ - ಕುಂ.ವೀರಭದ್ರಪ್ಪ ೪೦-೫೫

III .ಜಾನಪದ

೧. ನಾಲ್ವರು ಜಾಣರು - ಜನಪದ ಕಥೆ ೫೬-೬೪
೨. ಮೈಸೂರು ದೊರೆ ಕಥೆ - ಜನಪದ ಕಥನಗೀತೆ ೬೫-೬೯
೩. ಬೆಳ್ಳಿಂಗೈಪ್ಪನ ಪೂಜೆ - (ಲೇ.) ಅಗ್ರಹಾರ ಕೃಷ್ಣಮೂರ್ತಿ ೭೦-೭೭

IV . ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಒಂದು ಬೈಸಿಕಲ್ ಬೆಳಗ್ಗೆ - ಪಿ. ಲಂಕೇಶ್ ೭೮-೮೪
೨. ಮುಸ್ಲಿಂ ಹುಡುಗಿ ಶಾಲೆ ಕಲಿತದ್ದು - ಸಾರಾ ಅಬೂಬಕರ್ ೮೫-೯೬
೩. ಇಲ್ಲಿ ಯಾರು ಮುಖ್ಯರಲ್ಲ, ಯಾರೂ ಅಮುಖ್ಯರಲ್ಲ....
- ಕೃಪಾಕರ, ಸೇನಾನಿ ೯೭-೧೦೮

ಬಿ.ಎಸ್ಸಿ ಮತ್ತು
ಎಂ.ಎಸ್ಸಿ (ಸಂಯೋಜಿತ ೫ ವರ್ಷಗಳ ಪದವಿ)
ಮೊದಲನೇ ಸೆಮಿಸ್ಟರ್

I ಕಾವ್ಯಭಾಗ

೧. ಸಾಹಸಧನಂ ದುರ್ಯೋಧನಂ

- ರನ್ನ

ಆಶಯ :

ಹಳೆಗನ್ನಡ ಚಂಪೂಕಾವ್ಯಗಳಲ್ಲಿ ಪ್ರತಿನಾಯಕನನ್ನು ಉದಾತ್ತೀಕರಿಸುವ ಒಂದು ಪರಂಪರೆ ವಿಶೇಷವಾಗಿ ರೂಪುಗೊಂಡಿತು. ಪಂಪನ ಕರ್ಣ, ರನ್ನನ ದುರ್ಯೋಧನ, ನಾಗಚಂದ್ರನ ರಾವಣ ಮುಂತಾದವರನ್ನು ಕೇವಲ ಖಳರನ್ನಾಗಿ ಮಾತ್ರ ಚಿತ್ರಿಸದೆ, ಅವರ ಮಾನವೀಯತೆಯ ಮುಖಗಳನ್ನು ಇಲ್ಲಿ ಅನಾವರಣಗೊಳಿಸಿರುತ್ತಾರೆ. ಹೀಗೆ ಇಂಥ ಪ್ರತಿನಾಯಕರ ಬಹುಮುಖಿ ಚಿತ್ರಣಗಳನ್ನು ನೀಡುವ ಪ್ರಕ್ರಿಯೆಯಲ್ಲಿ ನಮ್ಮ ಕವಿಗಳ ಸ್ವೋಪಜ್ಞತೆಯನ್ನು ಗುರ್ತಿಸಬಹುದು. ಯಾರ ವ್ಯಕ್ತಿತ್ವವೂ ಪೂರ್ಣ ಒಳ್ಳೆಯದೂ ಅಲ್ಲ, ಪೂರ್ಣ ಕೆಟ್ಟದ್ದೂ ಅಲ್ಲ. ಎರಡರ ಮಿಶ್ರಣ. ಒಳಿತು - ಕೆಡಕುಗಳ ಪ್ರಮಾಣದಲ್ಲಿ ಭಿನ್ನತೆ ಇರಬಹುದು. ಹಾಗಾಗಿ ಕೆಡುಕಿನ ನಡುವೆಯೂ ಇರುವ ಒಳಿತನ್ನು ಇಲ್ಲಿ ಗಮನಿಸಲಾಗುತ್ತದೆ.

ದ್ವೇಷಕ್ಕೆ ಸಿಡಿಯುವ, ಪ್ರೀತಿಗೆ ಕರಗುವ ಸಾಹಸಧನ ದುರ್ಯೋಧನನ ಎರಡು ಮುಖಗಳು ಈ ಪದ್ಯದಲ್ಲಿದೆ. ಯುದ್ಧದ ಭೀಕರ ನೋಟಗಳಾಗಲಿ, ಹದಿನೆಂಟು ಅಕ್ಷೋಹಿಣಿ ಸೈನ್ಯದ ಮರಣವಾಗಲಿ, ಎಲ್ಲ ಪ್ರೀತಿಪಾತ್ರರ ವಿಯೋಗವಾಗಲಿ, ಸಾವಿನತ್ತಲೆ ಹೆಜ್ಜೆ ಹಾಕುತ್ತಿರುವ ದುರ್ಯೋಧನನಲ್ಲಿ ಪಾಂಡವರ ಬಗೆಗಿನ ದ್ವೇಷವನ್ನು ಕಡಿಮೆ ಮಾಡುವುದಿಲ್ಲ. ಭೀಮನ ಗದೆಯ ಹೊಡೆತಗಳನ್ನು ಸಹಿಸಬಲ್ಲ ಶಕ್ತಿಶಾಲಿ ದುರ್ಯೋಧನ, 'ಕಂದಾ' ಎನ್ನುವ ತಾಯಿಯ ಪ್ರೀತಿಯನ್ನು ಎದುರಿಸುವ ಶಕ್ತಿಯಿಲ್ಲದೆ ಮೂರ್ಛಿತನಾಗುವ ಪರಿ, ಧೀರೋದ್ಧತ ಎನೆನಿಸಿಕೊಂಡಿರುವವನನ್ನು ಧೀರೋದಾತ್ತನನ್ನಾಗಿ ಮಾಡುತ್ತದೆ. ಇಲ್ಲಿ ಆತ ದುರ್ಯೋಧನನಷ್ಟೇ ಅಲ್ಲ, ಸುಯೋಧನನೂ ಆಗಿದ್ದಾನೆ.

ಸ್ಥಿರ ಸತ್ಯವ್ರತಿಯೆಂದು ಧರ್ಮರುಚಿಯೆಂದಾ ಧರ್ಮಪುತ್ರಂ ದಯಾ ಪರನೆಂದೆಲ್ಲರ ಪೇಟ್ಟ ಮಾತು ಪುಸಿಯಾಯ್ತೀ ಕಾಮುಕಾಚಾರ್ಯನಂ ಗುರುವಂ ಬ್ರಾಹ್ಮಣನಂ ತೊದಳ್‌ನುಡಿದು ಕೊಂದಾಗಳ್ ಮೃಷಾ ಪಾತಕಂ ಪರಮೆಂಬೀ ನುಡಿಯಿಂ ಪೃಥಾಪ್ರಿಯಸುತಂ ಪಾಪಕ್ಕೆ ಪಕ್ಕಾಗನೇ

ವನಿತೆಯ ಕೇಶಮಂ ಸಭೆಯೊಳೆನ್ನನುಜಂ ತೆಗೆವಲ್ಲಿ ಗಂಡನಾ ಗನೆ ಭಗದತ್ತನಾನೆ ಬರಿಯೆಲ್ಲುಡಿವನ್ನೆಗಮೊತ್ತೆ ಗಂಡನಾ ಗನೆ ಕೊಲಲೊಲ್ಲದಂಗಳತಿ ಬಿಲ್ಲೊಳೆ ಕೋದೆಟಿವಲ್ಲಿ ಗಂಡನಾ ಗನೆ ಕುರುಬಾಲ ಸಂಹರಣ ಮಾತ್ರದೆ ಮಾರುತಿ ಗಂಡನಾದನೇ

ಒಡವುಟ್ಟಿದರಂ ಕೊಂದವ ರಡಗಂ ತಿಂದವರ ನೆತ್ತರಂ ಬಗಸೆರೆಯೊಳ್ ಕುಡಿವೀ ನಿಸ್ತಂಶತೆಯಂ ಹಿಡಿಂಬೆಯಂ ಪೊರ್ದಿ ಕಲ್ತನಾಗನೆ ಭೀಮಂ

ಎನಗಾ ಜೂದಿನೊಳಗ್ರಜಾನುಜಸಮೇತಂ ಗಂಡುದೊಳ್ತಾಗಿ ಕಾ ನನದೊಳ್ ವಲ್ಲಲಧಾರಿಯಾಗಿ ಹರನೊಳ್ ದಿವ್ಯಾಸ್ತ್ರಮಂ ಬೇಡೆ ಬೆ ಳ್ತನದಿಂ ತಾಪಸನಾಗಿ ಪೇಡಿಯೆನೆ ಮತ್ಸ್ಯಾವಾಸದೊಳ್ ವಾಸುದೇ ವನ ನಂಟಂ ನಟನಾಗಿ ಬಾರದ ಭವಂ ಬಂದಂ ಪೃಥಾನಂದನಂ

ಗುರುವಂ ಪ್ರೋಚ್ಛಿತ್ತಚಾಪನಂ ಪುಸಿದು ಕೊಂದಾ ಬೀರಮಂ ಭೀಷ್ಮರಂ ಶರಶಯ್ಯಾಗತರಂ ಕಣುತ್ತು ಗುಣಿಯೆಚ್ಚಾ ಪೊಚ್ಚುಣಂ ಕರ್ಣನಂ ವಿರಥಚ್ಯಾಯುಧನೆನ್ನದೆಚ್ಚು ತಲೆಗೊಂಡಾ ಶೌರ್ಯಮಂ ಪಾಂಡುಪು ತ್ರೆ ಬಲ್ಲರ್ ಮೆಣಿಯೆಲ್ಲೆ ಸಾಹಸಧನಂ ದುರ್ಯೋಧನಂ ಬಲ್ಲನೇ

ಸಭೆಯೊಳ್ ತಮ್ಮಯ ಪಕ್ಕದೆನ್ನನುಜನಾ ಪಾಂಚಾಲಿಯಂ ಪಂಚವ ಲ್ಲಭೆಯಂ ಮೋದೆಯುಮಲ್ಲಿ ಮಿಳ್ಳಿಳನೆ ನೋಡುತ್ತಿದರ್ ಬಲ್ಲಾಳ್ಳಿ ಳ್ಲಿ ಭರಂಗೆಯ್ದುಪರೀ ಪರಾಕ್ರಮಮುಮಿಾ ಪೆರ್ಮಾತುಮೀ ಗಂಡುಮಿಾ ಸುಭಟಾಲಾಪಮುಮೆಲ್ಲಮಾ ನೃಪಸುತರ್ಗಂದೆಲ್ಲಿ ಪೊಕ್ಕಿದರ್ಗೋ

||ವ|| ಎಂದು ಧೃತರಾಷ್ಟ್ರನಂದನಂ ಧರ್ಮನಂದನನುಮಂ
ವಾಯುನಂದನನುಮಂ ಸಂಕ್ರಂದನಂದನನುಮಂ ಅಶ್ವಿನೀನಂದನರುಮಂ
ನಿರಾಕರಣಂಗೆಯ್ದು ಅನಿತಱಿಂಗಳಂ ಮಾಣದೆ

ಪುರುಷರ್ ಮೂವರೊಳೊಬ್ಬನೆಂಬರ್ ಅಸುರ ಪ್ರದ್ವಂಸಿಯೆಂಬರ್ ಜಗ
ದ್ಗುರುವೆಂಬರ್ ಪೆಣಿಗೇಕೆ ತೇರನೆಸಪಂ ಧರ್ಮಾನುಜಂಗೆಕೆ ಕಿಂ
ಕರನಾದಂ ಕರವೇಟಿಯಾದನದರಿಂ ಸೂತಂ ಭಟಂ ಪೇಟಿಯೆಂ
ಬರ ಮಾತೊಪ್ಪುಗುಮಾದಿದೇವನೆನಿಸಲ್ ಕೃಷ್ಣಂಗದಂತೊಪ್ಪುಗುಂ

||ವ|| ಎನೆ ಸಂಜಯನಂಜದೆ ಮಾರ್ಕೊಂಡು

ಪ್ರತಿಕೂಲ ದೈವನಯ್ ನೀಂ
ಪ್ರತಿನೃಪರನುಕೂಲ ದೈವರಸಹಾಯನೆ ನೀಂ
ಪ್ರತಿನೃಪರಸಹಾಯ ಜಿತ
ಪ್ರತಿಬಲರದಱಿಂಧನರ್ಥತಂ ವಾಕ್ಯಾರ್ಥಂ

||ವ|| ಎಂದು ನುಡಿದ ಸಂಜಯನ ನುಡಿಗೇ ದುರ್ಯೋಧನಂ ನಿವೈಸಿ

ಸಮರಜಯಂ ದೈವಾಯ
ತ್ತಮದಱಿನಾ ಪುರುಷಾಕಾರಮೆಮಗಾಯ್ತೀಗಳ್
ಯಮನಂದನಾದಿಗಳೊಳೊಂ
ದೆ ಮೆಯ್ಯೊಳಾಂತಿವೆನೆನ್ನ ಛಲವಂ ಮೆಱಿವೆಂ

ಎನಗಿರ್ವರುಮೆರಡುಂ ತೋ
ಳೆನಗಿರ್ವರುಮೆರಡು ಕಣ್ಣಳನ್ನರೆ ಯುವರಾ
ಜನುಮಂಗರಾಜನುಂ ಪೋ
ರೆನೆ ಸಂಜಯ ಮತ್ತಮನೆಗೆ ಮಾನಸವಾಱಿ

ಎನಗೆ ಮನಮಿಂದು ಶೂನ್ಯಂ
ಮನೆ ಶೂನ್ಯಂ ಬೀಡು ಶೂನ್ಯಮಾದುದು ಸಕಲಾ
ವನಿ ಶೂನ್ಯಮಾಯ್ದು ದುಶ್ಯಾ
ಸನನಿಲ್ಲದೆ ಕರ್ಣನಿಲ್ಲದಾನೆಂತಿರ್ಪೆಂ

ಬಾಂಧವರನಿಟಿಸಿ ಸರಸಿಜ
ಬಾಂಧವ ತನಯನುಮನೆನ್ನ ತಮ್ಮನುಮಂ ನ
ಮ್ಕಂಧನರೇಂದ್ರನ ಮೊಗಮಂ
ಗಾಂಧಾರಿಯ ಮೊಗಮನಾವ ಮೊಗದೊಳೆ ನೋಟ್ಟಿಂ

||ವ|| ಎಂಬನ್ನೆಗಂ ಗಾಂಧಾರಿಯುಂ ಧೃತರಾಷ್ಟ್ರನುಂ ಶೋಕಾಕುಲೀಕೃತ
ಚಿತ್ತರಾಗಿ ತಮ್ಮ ಮಗನನಾರಯ್ಯಲುಂ ಮನಃಕ್ಷತಮನಾಟಿಸಲುಮೆಂದು
ಅಱಿಸುತ್ತಂ ಬಂದು

ಪಡೆ ಪನ್ನೊಂದಕ್ಷೋಹಿಣಿ-
ಗೊಡೆಯನೆ ಮೂರ್ಧಾಭಿಷಿಕ್ತನಯ್ ಮೂಱುಂಬೆ
ಳ್ಳೊಡೆಯ ನಡುವಿರ್ಪ ನೀನಿ
ರ್ದೆಡೆಯುಮನ್ ಎಮಗಟಿಯದಂತುಟಾದುದೆ ಮಗನೇ

||ವ|| ಎಂದು ಪಟಯಿಸುತ್ತಂ ಬರ್ಪ ಗುರುಜನದ ಸರಮಂ ಸಂಜಯನಟಿದು
ಕರಕಮಲಮುಕುಳಿತಾಂಜಲಿಯಾಗಿ ದೇವಾ ನಿನ್ನಲ್ಲಿಗೆ ನಿಜಜನನೀಜನಕರ್
ಅಱಿಸುತ್ತಂ ಬಂದರ್ ಎಂಬುದುಂ ಉದ್ಭುತಗೋತ್ರಾಭಿಮುಖಂ
ವಜ್ರಾಘಾತಮಾದಂತೆ ಸಿಗ್ಗಾಗಿ ತಲೆಯಂ ಬಾಗಿ

ಅರಿಭೂಪಾಲರನಿಕ್ಕಿ ಗೆಲ್ಲೊಸಗೆಯಿಂ ತೂರ್ಯಸ್ವನಂ ಪೊಣ್ಣೆ ಸೋ
ದರರುಂ ಮಕ್ಕಳುಮಾಪ್ತರುಂ ಬೆರಸು ಬಂದಾನಂದದಿಂ ಕಾಣ್ಣೆನೆಂ
ದಿರಲಿಂತಾಯ್ತು ವಿಧಾತ್ರ ಮದ್ಗುರುಗಳಂ ದುಃಖಾತ್ಮರಂ ಶೋಕತ
ತ್ವರರಂ ಮೆಯ್ಯೊಳೆ ಬೀಟುವಶ್ರುಮುಖಿರಂ ಕಾಣ್ಣಂತುಟಂ ಮಾಡಿದಯ್

ಕಂದ ನಿಜಾನುಜರೆಲ್ಲಿದ
ರೆಂದೆನ್ನಂ ಜನನಿ ಬಂದು ಬೆಸಗೊಂಡೊಡದೇ
ನೆಂದು ಮಱುಮಾತುಗುಡುವೆಂ
ಕೊಂದರ್ ಕೌಂತೇಯರೆಂದು ಬಿನ್ನೈಸುವೆನೋ

ಶೋಕಂ ಮಿಗೆ ಫಣಿರಾಜಪ
ತಾಕಂ ವಿಗಳಿತವಿವೇಕನವಿರಳಬಾಷ್ಟೋ
ದ್ರೇಕಂ ಹಾ ದುಶ್ಯಾಸನ
ಹಾ ಕರ್ಣಾ ಎನುತುಮಂತೆ ಮೂರ್ಛೆಗೆ ಸಂದಂ

ಕವಿ ಪರಿಚಯ

ರನ್ನ : ಹಳೆಗನ್ನಡ ಚಂಪೂ ಕಾವ್ಯ ಪರಂಪರೆಯಲ್ಲಿ 'ವಾಗ್ಗೇವಿಯ ಭಂಡಾರದ ಮುದ್ರೆಯನೊಡೆದ' ರನ್ನ ಹೆಸರುವಾಸಿಯಾದವನು. ಕಾಲ ೧೦ನೇ ಶತಮಾನ. ಸ್ಥಳ ಇಂದಿನ ಮುಧೋಳ. ಜೈನಧರ್ಮಿ. ಆದಿಕವಿ ಪಂಪನನ್ನು ಅನುಸರಿಸಿ ಕಾವ್ಯರಚನೆ ಮಾಡಿದರೂ, ಸ್ವಂತಿಕೆಯಿಂದ ಪ್ರಸಿದ್ಧನಾಗಿರುವ ಕವಿ. ಜೈನ ತೀರ್ಥಂಕರ ಅಜಿತನಾಥನ ಕಥೆಯನ್ನು ಹೇಳುವ ಅಜಿತತೀರ್ಥಂಕರ ಪುರಾಣ (ಕ್ರಿ.ಶ. ೯೯೩) ಅವನು ರಚಿಸಿರುವ ಧಾರ್ಮಿಕ ಕಾವ್ಯ. ಮತ್ತೊಂದು ಕೃತಿ ಸಾಹಸಭೀಮ ವಿಜಯಂ (ಕ್ರಿ.ಶ. ೯೯೦) 'ಗದಾಯುದ್ಧ'ವೆಂದೇ ಜನಪ್ರಿಯವಾಗಿದೆ. ಭೀಮನೊಂದಿಗೆ ತನ್ನ ಆಶ್ರಯದಾತನಾಗಿದ್ದ ಇರಿವೆಬೆಡಂಗ ಸತ್ಯಾಶ್ರಯವನ್ನು ಸಮೀಕರಿಸಿ ಹೇಳಿರುವ ರನ್ನ, ಈ ಕೃತಿಯಲ್ಲಿ ಪಂಪಭಾರತದ ಎರಡು ಆಶ್ವಾಸಗಳನ್ನು ತನ್ನ ಸಂಪೂರ್ಣಕಾವ್ಯವಾಗಿ ವಿಸ್ತರಿಸಿಕೊಂಡಿದ್ದಾನೆ. ಭೀಮ - ದುರ್ಯೋಧನರ ಗದಾಯುದ್ಧದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಸಿಂಹಾವಲೋಕನ ಕ್ರಮದಿಂದ ಭಾರತ ಕಥೆಯನ್ನು ಪರಿಚಯಿಸಲಾಗಿದೆ. ಕಾವ್ಯದ ಓಜಸ್ಸಿಗೂ, ಉಜ್ವಲವಾದ ಮಾತುಗಾರಿಕೆಗೂ, ಪರಿಣಾಮಕಾರಿಯಾದ ನಾಟಕೀಯತೆಗೂ ಹೆಸರಾಗಿರುವ ರನ್ನ ಕನ್ನಡದ 'ರತ್ನತ್ರಯ'ರಲ್ಲಿ ಒಬ್ಬ, 'ಕವಿಚಕ್ರವರ್ತಿ'ಯೂ ಹೌದು.

ಕಠಿಣ ಪದಗಳ ಅರ್ಥ :

೧. ಧರ್ಮರುಚಿ = ಧರ್ಮದಲ್ಲಿ ಆಸಕ್ತಿಯುಳ್ಳವನು; ಕಾರ್ಮುಕಾಚಾರ್ಯ = ದ್ರೋಣ, ತೊಡಳ್ಳನುಡಿದು = ಸುಳ್ಳುಹೇಳಿ; 'ಮೃಷಾಪಾತಕಂಪರಂ' = ಸುಳ್ಳು ಮಹಾಪಾತಕ; ಇದೊಂದು ಸಂಸ್ಕೃತದ ನುಡಿಗಟ್ಟು. ಪಕ್ಕಾಗನೇ = ಗುರಿಯಾಗುವುದಿಲ್ಲವೆ?

೨. ವನಿತೆ = ಹೆಣ್ಣು, ದ್ರೌಪದಿ; ಗಂಡಂ ಆಗನೆ = ವೀರನಾಗದೆ ಹೋದನೆ - (ಎಂದರೆ, ಅವನಲ್ಲಿ ಪೌರುಷವಿದ್ದ ಪಕ್ಷದಲ್ಲಿ ಅಂಥ ಸಮಯದಲ್ಲಿ ಏಕೆ ಸುಮ್ಮನಿದ್ದ?) ಬರಿಯ ಎಲ್ಲು ಉಡಿವನ್ನೆಗಂ = ಪಕ್ಕೆಯ ಎಲುಬು ಮುರಿಯುವ ತನಕ; ಭಗದತ್ತನ ಆನೆ ಒತ್ತೆ = ಕೌರವ ಪಕ್ಷದ ಭಗದತ್ತನು ಏರಿದ್ದ ಸುಪ್ರತೀಕವೆಂಬ ಭಯಂಕರವಾದ ಆನೆಯೊಡನೆ ಭೀಮನು ಸೆಣಸುತ್ತಾನೆ. ಯಾರನ್ನು ಯಾರೂ ಸೋಲಿಸಲು ಆಗುವುದಿಲ್ಲ. ಕಡೆಗೆ ಅರ್ಜುನನು ಭೀಮನ ಸಹಾಯಕ್ಕೆ ಬಂದು ಭಗದತ್ತನನ್ನೂ, ಸುಪ್ರತೀಕವನ್ನೂ ಸಂಹರಿಸುತ್ತಾನೆ; ಅಂಗಪತಿ = ಕರ್ಣ; ಕೋದು = ಪೋಣಿಸಿ, ಚುಚ್ಚಿ; ಕೊಲಲೊಲ್ಲದೆ... ಎಲೆವಲ್ಲಿ = ಭಾರತ ಯುದ್ಧದಲ್ಲಿ ಒಮ್ಮೆ ಭೀಮ, ಕರ್ಣನ ಬಾಣಗಳಿಂದ ನೊಂದು ರಥದಲ್ಲಿ ಮೂರ್ಛಿತನಾಗಿ ಬೀಳುತ್ತಾನೆ. ಅವನ ಕೊರಳಿಗೆ ಕರ್ಣ ತನ್ನ ಬಿಲ್ಲನ್ನು ಕೋದು ಎತ್ತುತ್ತಾನೆ. ಆದರೆ ತಾಯಿಗೆ ಕೊಟ್ಟ ಮಾತನ್ನು ನೆನೆದು ಅವನನ್ನು ಕೊಲ್ಲದೆ ಬಿಡುತ್ತಾನೆ; ಕುರುಬಾಲ = ಕುರುವಂಶದ ಬಾಲಕರು, ದುರ್ಯೋಧನನ ತಮ್ಮಂದಿರು; ಮಾರುತಿ = ಭೀಮ

೩. ಒಡವುಟ್ಟಿದರಂ = ಕೌರವರೂ ಭೀಮನಿಗೆ ಸೋದರ ಸಮಾನವೆ. ಅಡಗು = ಮಾಂಸ, ಬಗಸೆರೆ = ಬೊಗಸೆ, ನಿಸ್ಸಿಂಶತೆ = ನಿಷ್ಕರುಣೆ; ಪೊರ್ದಿ = ಹೊಂದಿ. (ಸೋದರರನ್ನು ಕೊಂದು, ದುಶ್ಯಾಸನನ ರಕ್ತವನ್ನು ಹೀರಿ, ಮಾಂಸವನ್ನು ತಿಂದಿದ್ದು ನಿಜವಾಗಿ ರಾಕ್ಷಸ ಕೃತ್ಯ. ಹಿಡಿಂಬೆಯ ಕೈಹಿಡಿದೇ ಇದನ್ನು ಭೀಮ ಕಲಿತಿರಬೇಕು ಎಂದು ತಾತ್ಪರ್ಯ.)

೪. ಜೂದು = ಜೂಜು, ದ್ಯೂತ, ಗಂಡುದೊಳ್ಳು = ದಾಸ, ವಲ್ಲಲ = ನಾರುಮಡಿ, ಬೆಳ್ಳನ = ಮರುಳುತನ, ಬೆಪ್ಪು, ಪೇಡಿ = ಹೇಡಿ, ನಪುಂಸಕ, ಮತ್ತಾವಾಸ = ಮತ್ಸ್ಯದೇಶದ ರಾಜನಾದ ವಿರಾಟನ ಅರಮನೆ, ಬಾರದ ಭವಂ ಬಂದಂ = ಹೊಂದಬಾರದ ದುಃಸ್ಥಿತಿಯನ್ನು ಹೊಂದಿದ. (ಅರ್ಜುನ ದಾಸನಾದದ್ದನ್ನೂ, ಬೃಹಸ್ಪತಿಯಾದದ್ದನ್ನೂ, ತಪಸ್ವಿಯಾದದ್ದನ್ನೂ ದುರ್ಯೋಧನ ಉಪಹಾಸ ಮಾಡುತ್ತಿದ್ದಾನೆ.)

೫. ಪ್ರೋಜ್ಜಿತಚಾಪ = ಬಿಲ್ಲನ್ನು ಬಿಸುಟವನು, ದ್ರೋಣ. ಕಱುತ್ತು = ಕೋಪಗೊಂಡು, ಮತ್ತರಿಸಿ, ಗುಣಿಯೆಚ್ಚ ಆ ಪೊಚ್ಚಿಂ = ಗುರಿಯಿಟ್ಟು ಹೊಡೆದ ಆ ಸ್ಫೂರ್ತಿಯನ್ನು, ವಿರಥಚ್ಯಾಯುಧಂ ಎನ್ನದೆ = ರಥವೂ, ಬಿಲ್ಲುಬಾಣಗಳೂ ಇಲ್ಲವೆಂಬುದನ್ನು ಗಣನೆಗೆ ತಂದುಕೊಳ್ಳದೆ, ತಲೆಗೊಂಡ = ಕೊಂದ, ('ದ್ರೋಣ, ಭೀಷ್ಮ, ಕರ್ಣರನ್ನು ಕೊಂದ ಬಗೆಗೆ, ಇಂಥ ಶೌರ್ಯಸ್ಫೂರ್ತಿಗಳನ್ನು ಪ್ರದರ್ಶಿಸುವುದು ತನಗೆ ಸಾಧ್ಯವಿಲ್ಲವೆಂಬ ದುರ್ಯೋಧನನ ತಿರಸ್ಕಾರೋಕ್ತಿ.')

೬. ಪಂಚವಲ್ಲಭೆ = ದ್ರೌಪದಿ (ಈ ವಿಶೇಷಣದಿಂದ ದುರ್ಯೋಧನನ ತಿರಸ್ಕಾರ ವ್ಯಕ್ತವಾಗುತ್ತದೆ.) ಮೋದು = ಹೊಡೆ, ಮಿಳ್ಳಿಳನೆ = ಮಿಳ ಮಿಳ ಎಂದು, ಸುಮ್ಮನೆ ಕಣ್ಣು ಬಿಟ್ಟುಕೊಂಡು; ಬಲ್ಲಾಳಗಳು = ಶೂರರು, ಭರಂಗೆಯ್ಯಪರ್ = ಜೋರು ಮಾಡುತ್ತಾರೆ, ಪೆರ್ಮಾತು = ಭಾರಿಯ ಮಾತು. (ದ್ರೌಪದಿಯ ಬಗೆಗೆ ತಮ್ಮದು ತಪ್ಪಾಯಿತು ಎಂದು ಇಲ್ಲಿ ದುರ್ಯೋಧನನಿಗೆ ಅನಿಸುವುದಿಲ್ಲ.)

ವಚನ: ಸಂಕ್ರಂದನಂದನ = ಇಂದ್ರನ ಮಗ, ಅರ್ಜುನ; ಅಶ್ವಿನೀನಂದನರು = ನಕುಲ, ಸಹದೇವ.

೭. ಪುರುಷರ್ ಮೂವರ್ = ತ್ರಿಮೂರ್ತಿಗಳು, ಬ್ರಹ್ಮ ವಿಷ್ಣು ಮಹೇಶ್ವರರು. ಪ್ರದ್ಧಂಸಿ = ಸಂಹಾರಕ, ಕರವೇಳಿ = ಕಡು ಹೇಡಿ

೮. ಪ್ರತಿನೃಪರ್ = ಶತ್ರುರಾಜರು, ಪಾಂಡವರು, ಅಸಹಾಯ... ಬಲರ್ = ಬೇರೊಬ್ಬರ ಸಹಾಯವಿಲ್ಲದೆ ಶತ್ರುಸೈನ್ಯವನ್ನು ಜಯಿಸಿದವರು. ಅನರ್ಥಕಂ ವಾಕ್ಯಾರ್ಥಂ = ಮಾತಿಗೆ ಮಾತನ್ನು ಬೆಳೆಸುವುದು ನಿಷ್ಪ್ರಯೋಜಕ.

ವಚನ: ನಿವೈರ್ಸಿ = ಬೇಸರಗೊಂಡು.

೯. ಪುರುಷಕಾರ=ಪುರುಷಪ್ರಯತ್ನ, (ವಿಜಯ ದೈವದ ಕೈಯಲ್ಲಿದ್ದರೆ ಹೋರಾಟ ನಮ್ಮ ಕೈಯಲ್ಲೇ ಇದೆ.) ಒಂದೆ ಮೆಯ್ಯೊಳ್=ಏಕಾಂಗಿಯಾಗಿ, ಆಂತಿವೆಂ=ಪ್ರತಿಭಟಿಸಿ ಯುದ್ಧ ಮಾಡುತ್ತೇನೆ. ಛಲ=ಹಠ.

೧೦. ಕರ್ಣದುಶ್ಯಾಸನರ ಮಾತು ಬಂದದ್ದರಿಂದ ದುರ್ರೋಧನ ಭಾವೋದ್ರಿಕ್ತನಾಗುತ್ತಾನೆ. ಅತ್ಯಂತ ಪ್ರಿಯರಾದ ಇವರಿಗಾಗಿ ಶೋಕಿಸುತ್ತಾ, ತನ್ನ ಸಂಕಟದ ನುಡಿಗಳಿಂದ ಓದುಗರ ಹೃದಯವನ್ನು ಕರಗಿಸುತ್ತಾನೆ. ಯುವರಾಜನುಂ ಅಂಗರಾಜನುಂ = ದುಶ್ಯಾಸನ, ಕರ್ಣ. ಕಣ್ಣಳನ್ನರೆ = ಕಣ್ಣುಗಳಂಥವರೆ. ಪೋರೆನೆ=ಯುದ್ಧಮಾಡುವುದಿಲ್ಲ ಎನ್ನುವುದಾದರೆ, ಮಾನಸವಾಙ್=ಮನುಷ್ಯನಂತೆ ಬದುಕಬಹುದೆ?

೧೧. ಬೀಡು=ಸೇನೆಯ ವಸತಿ

೧೨. ಇಳಿಸಿ=ಕೊಲ್ಲಿಸಿ, ನಮ್ಮ ಅಂಧನ್ಯಪ=ಧೃತರಾಷ್ಟ್ರನ, ಆವಮೊಗದೊಳೆ=ಯಾವ ಮುಖವನ್ನು ಇಟ್ಟುಕೊಂಡು

ವಚನ : ಆರಯ್=ವಿಚಾರಿಸು, ಹುಡುಕು, ಮನಃಕ್ಷತ = ಮನೋವೃಥೆ ಆಳಿಸು=ಶಮನಗೊಳಿಸು

೧೩. ಮೂರ್ಧಾಭಿಷಿಕ್ತನಯ್=ರಾಜ್ಯಾಭಿಷೇಕ ಮಾಡಿಸಿಕೊಂಡವನು, ಮೂಱುಂಬೆಳ್ಳೊಡೆಯ = ಮೂರು ಶ್ಲೇಷ್ಠತ್ವಗಳ ಹಿಂದೆ ನೀನು ಚಕ್ರವರ್ತಿ ಚಿನ್ನೆಗಳಿಂದ ಕೂಡಿ ಎಷ್ಟು ದೂರದಿಂದಲಾದರೂ ಗೋಚರಿಸುತ್ತಿದ್ದೆ; ಈಗ, ಆ ವೈಭವಗಳಿರಲಿ, ನೀನಿರುವ ಜಾಗ ಕೂಡ ನಮಗೆ ಗೊತ್ತಾಗದಂತೆ ಆಗಿಹೋಯಿತಲ್ಲ ಎಂದು ತಂದೆತಾಯಿಗಳು ಮರುಗುತ್ತಾರೆ.

ವಚನ: ಪಟಯಿಸು=ಪ್ರಲಾಪಿಸು, ಸರ=ಸ್ವರ, ಗೋತ್ರ=ವಂಶ, ಬೆಟ್ಟ, ಸಿಗ್ಗಾಗು=ನಾಚಿಕೆಪಟ್ಟು, (ತನ್ನ ವಂಶದವರ ಅಂದರೆ ಹಿರಿಯರ ಹೆಸರನ್ನು ಎತ್ತಿದ ಕೂಡಲೆ, ತಲೆಎತ್ತಿ ನಿಂತ ಬೆಟ್ಟಕ್ಕೆ ವಜ್ರಾಯುಧದ ಪೆಟ್ಟು ಬಿದ್ದಂತೆ, ದುರ್ರೋಧನ ನಾಚಿಕೆಯಿಂದ ತಲೆತಗ್ಗಿಸಿದ ಎಂಬ ಭಾವ.)

೧೪. ಇಕ್ಕಿ=ಕೊಂದು, ಗೆಲ್ಲ ಒಸಗೆ=ವಿಜಯದ ಶುಭವಾರ್ತೆ, ತೂರೈಸ್ವನಂ ಪೊಣ್ಣೆ=ವಾದ್ಯಗಳು ಮೊರೆಯುತ್ತಿರಲು, ವಿಧಾತ್ರ=ಓ ವಿಧಿಯೇ, ಬೀಟುವ ಅಶ್ರುಮುಖರಂ=ಕಣ್ಣೀರು ಸುರಿಯುತ್ತಿರುವ ಮುಖವುಳ್ಳವರನ್ನು

೧೫. ಎಲ್ಲಿದರ್=ಎಲ್ಲಿದ್ದಾರೆ, ಬೆಸಗೊಂಡೊಡೆ=ಕೇಳಿದರೆ, (ಇಲ್ಲಿ 'ಕಂದ' ಎಂಬ ಅತಿಕೋಮಲವಾದ ಸಂಬೋಧನೆ ದುರ್ರೋಧನನ ಶೋಕಕ್ಕೆ ಅತ್ಯಂತ

ಪೋಷಕವಾಗಿ ಕರುಣರಸವನ್ನು ಉಕ್ಕಿಸುತ್ತದೆ.) ಕೌಂತೇಯರ್=ಕುಂತಿಯ ಮಕ್ಕಳು. -ಈ ಪದಪ್ರಯೋಗವೂ ಅರ್ಥಪೂರ್ಣ.

೧೬. ಮಿಗೆ=ಮಿತಿಮೀರಲು, ಅವಿರಳ ಬಾಷ್ಟೋದ್ರೇಕಂ=ಉಕ್ಕಿಉಕ್ಕಿ ಕಂಬನಿ ಹರಿಸುತ್ತ. (ಕರ್ಣ, ದುಶ್ಯಾಸನರಿಬ್ಬರೂ ದುರ್ರೋಧನನ ಹೃದಯವನ್ನು ಹೇಗೆ ತುಂಬಿದ್ದರೆಂಬುದಕ್ಕೆ ಇದೇ ನಿದರ್ಶನ.)

ಸ್ವೀಕೃತ ಮೂಲ : ಗದಾಯುದ್ಧ ಸಂಗ್ರಹ, ಸಂ : ತೀ.ನಂ.ಶ್ರೀಕಂಠಯ್ಯ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಪಾಂಡವರನ್ನು ಕುರಿತು ದುರ್ರೋಧನನ ತಿರಸ್ಕಾರ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ?
೨. ಕೌರವರ ವಿಜಯದ ಬಗ್ಗೆ ದುರ್ರೋಧನನಿಗಿದ್ದ ಕನಸಿಗೂ, ವಾಸ್ತವಕ್ಕೂ ಇರುವ ವ್ಯತ್ಯಾಸವೇನು?
೩. ದುಶ್ಯಾಸನ, ಕರ್ಣರ ಬಗೆಗೆ ದುರ್ರೋಧನನ ಪ್ರೀತಿ ಹೇಗೆ ವ್ಯಕ್ತವಾಗಿದೆ?
೪. ತನ್ನ ಬದುಕು ಶೂನ್ಯವಾಗಿದೆಯೆಂದು ದುರ್ರೋಧನ ಏಕೆ ಹೇಳುತ್ತಾನೆ?
೫. ಪ್ರಸ್ತುತ ಪದ್ಯಭಾಗದಿಂದ ಒಡಮೂಡುವ ದುರ್ರೋಧನನ ವ್ಯಕ್ತಿತ್ವವನ್ನು ಚಿತ್ರಿಸಿ.
೬. ಮೂರ್ಛೆಹೋದರೂ ದುರ್ರೋಧನ ಮೆಚ್ಚುಗೆಗೆ ಅರ್ಹನಾಗುವುದು ಏಕೆ? ತಿಳಿಸಿ.
೭. ಪಾಂಡವರ ಬಗೆಗಿನ ದುರ್ರೋಧನನ ಆರೋಪಗಳು ಸುಳ್ಳು-ನಿಜವೋ? ಚರ್ಚಿಸಿ.

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೨. ಬೆಳಗೆ ಕನ್ನಡಿಯೆನಿಸುತ್ತಯ್ಯಾ

- ವಚನಕಾರರು

ಆಶಯ :

ಮನುಷ್ಯ ತನ್ನ ಬದುಕನ್ನು ಹಸನು ಮಾಡಿಕೊಳ್ಳುವುದು ಹೇಗೆ ಎನ್ನುವುದು ಅನಾದಿಯಿಂದಲೂ ಚರ್ಚೆಯಾಗುತ್ತಾ ಬಂದಿರುವ ಸಂಗತಿ. ಬೇಂದ್ರೆ ಹೇಳುವಂತೆ, 'ಬದುಕಿನೊಳಗೆ ಬಾಳುವುದು' ಮನುಷ್ಯನ ಆದಿಮ ಬಯಕೆ. ಅದನ್ನು ಸಾಧಿಸಿಕೊಳ್ಳುವ ಬಗೆ ಹೇಗೆ? ಇದೊಂದು ಸಿದ್ಧ ಅಥವಾ ದತ್ತ ಸಂಗತಿಯಲ್ಲ. ಇದಕ್ಕಾಗಿ ನಾವು ಸತತವಾಗಿ ಪ್ರಯತ್ನಿಸಬೇಕು. ಮೂಲತಃ ಸ್ವಾರ್ಥದ್ದೂ, ದುರಾಸೆಯದ್ದೂ ಆದ ನಮ್ಮ ಮನಸ್ಥಿತಿಯನ್ನು ಅದರ ಕುಬ್ಜತೆಯಿಂದ ಪಾರು ಮಾಡಿಕೊಳ್ಳುತ್ತಾ, 'ಬದುಕು-ಬದುಕುಗೊಡು, ಎನ್ನುವ ಸ್ಥಿತಿಗೆ, ಎತ್ತರಕ್ಕೆ ಮನುಷ್ಯರು ಏರಬೇಕು. ಇದು ಸಾಧ್ಯವಾಗುವುದು ಮಾನವೀಯತೆಯಿಂದ, ತರತಮಗಳ ವಿವೇಚನೆಯಿಂದ, ಅಗಾಧವಾದ ಜೀವ ಪ್ರೀತಿಯಿಂದ. ಎಲ್ಲಕ್ಕಿಂತ ಹೆಚ್ಚಾಗಿ ಮನುಷ್ಯತ್ವದ ಘನತೆಯಿಂದ. ಬದುಕಿನ ಬಗೆಗಿನ ನಂಬಿಕೆ, ಗೌರವ ಮತ್ತು ಪ್ರೀತಿಗಳು ಇದನ್ನು ಸಾಧ್ಯವಾಗಿಸುತ್ತವೆ. ಬದುಕೊಂದು ವರ. ಅದನ್ನು ಸಾರ್ಥಕವಾಗಿಸಿಕೊಳ್ಳಬೇಕಾದ್ದು ನಮ್ಮ ಜವಾಬ್ದಾರಿ.

ಉಂಬ ಬಟ್ಟಲು ಬೇರೆ ಕಂಚಲ್ಲ -ನೋಡುವ ದರ್ಪಣ
ಬೇರೆ ಕಂಚಲ್ಲ - ಭಾಂಡ ಒಂದೇ ಭಾಜನ ಒಂದೇ
ಬೆಳಗೆ ಕನ್ನಡಿಯೆನಿಸುತ್ತಯ್ಯಾ
ಅರಿದಡೆ ಶರಣ - ಮರೆದಡೆ ಮಾನವ
ಮರೆಯದೆ ಪೂಜಿಸು ಕೂಡಲ ಸಂಗಮನ

ಮನೆಯೊಳಗೆ ಮನೆಯೊಡೆಯನಿದ್ದಾನೋ ಇಲ್ಲವೋ?
ಹೊಸ್ತಿಲಲ್ಲಿ ಹುಲ್ಲು ಹುಟ್ಟಿ, ಮನೆಯೊಳಗೆ ರಜತುಂಬಿ
ಮನೆಯೊಳಗೆ ಮನೆಯೊಡೆಯನಿದ್ದಾನೋ ಇಲ್ಲವೋ?

ತನುವಿನಲಿ ಹುಸಿ ತುಂಬಿ, ಮನದೊಳಗೆ ವಿಷಯ ತುಂಬಿ
ಮನೆಯೊಳಗೆ ಮನೆಯೊಡೆಯನಿಲ್ಲ ಕೂಡಲಸಂಗಮದೇವ

ನೆರೆ ಕೆನ್ನೆಗೆ, ತೆರೆ ಗಲ್ಲಕೆ ಶರೀರ ಗೂಡುವೋಗದ ಮುನ್ನು
ಹಲ್ಲು ಹೋಗಿ, ಬೆನ್ನು ಬಾಗಿ ಅನ್ಯರಿಗೆ ಹಂಗಾಗದ ಮುನ್ನು
ಕಾಲ ಮೇಲೆ ಕೈಯನೂರಿ, ಕೋಲ ಹಿಡಿಯದ ಮುನ್ನು
ಮುಷ್ಟಿಂದ ಒಪ್ಪವಳಿಯದ ಮುನ್ನು ಮೃತ್ಯು ಮುಟ್ಟದ ಮುನ್ನು
ಪೂಜಿಸು ಕೂಡಲಸಂಗಮದೇವನ

ದಯವಿಲ್ಲದ ಧರ್ಮವದೇವುದಯ್ಯಾ
ದಯವೇ ಬೇಕು ಸಕಲಪ್ರಾಣಿಗಳೆಲ್ಲರಲ್ಲಿಯೂ
ದಯವೇ ಧರ್ಮದ ಮೂಲವಯ್ಯಾ
ಕೂಡಲಸಂಗಯ್ಯನಂತಲ್ಲದೊಲ್ಲನಯ್ಯಾ

ಏನು ಬಂದಿರಿ, ಹದುಳವಿದ್ದಿರೆ ಎಂದರೆ
ನಿಮ್ಮೆಸಿರಿ ಹಾರಿ ಹೋಹುದೆ?
ಕುಳ್ಳಿರೆಂದರೆ ನೆಲ ಕುಳಿಹೋಹುದೆ?
ಒಡನೆ ನುಡಿದಡೆ ಶಿರ, ಹೊಟ್ಟೆಯೊಡೆವುದೆ?
ಕೊಡಲಿಲ್ಲದಿದ್ದಡೊಂದು ಗುಣವಿಲ್ಲದಿದ್ದಡೆ
ಮೂಗ ಕೊಯ್ಯದೆ ಮಾಣ್ಣನೆ ಕೂಡಲಸಂಗಮದೇವಯ್ಯಾ?

ತನಗೆ ಮುನಿವವರಿಗೆ ತಾ ಮುನಿಯಲೇಕಯ್ಯಾ
ತನಗಾದ ಆಗೇನು ಅವರಿಗಾದ ಚೇಗೇನು?
ತನುವಿನ ಕೋಪ ತನ್ನ ಹಿರಿಯತನದ ಕೇಡು
ಮನದ ಕೋಪ ತನ್ನ ಅರಿವಿನ ಕೇಡು
ಮನೆಯೊಳಗಣ ಕಿಚ್ಚು ಮನೆಯ ಸುಟ್ಟಲ್ಲದೆ
ನೆರಮನೆಯ ಸುಡದು ಕೂಡಲಸಂಗಮದೇವ

ಬೆಟ್ಟದ ಮೇಲೊಂದು ಮನೆಯ ಮಾಡಿ
ಮೃಗಗಳಿಗೆ ಅಂಜಿದಡೆಂತಯ್ಯಾ?

ಸಮುದ್ರದ ತಡಿಯಲೊಂದು ಮನೆಯಮಾಡಿ
ನೊರೆತೆರೆಗಳಿಗಂಜಿದಡೆಂತಯ್ಯಾ?

ಸಂತೆಯೊಳಗೊಂದು ಮನೆಯಮಾಡಿ

ಶಬ್ದಕ್ಕೆ ನಾಚಿದೊಡೆಂತಯ್ಯಾ?

ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನದೇವ ಕೇಳಯ್ಯ

ಲೋಕದೊಳಗೆ ಹುಟ್ಟಿದ ಬಳಿಕ ಸ್ತುತಿ-ನಿಂದೆಗಳು ಬಂದರೆ
ಮನದಲ್ಲಿ ಕೋಪವ ತಾಳದೆ ಸಮಾಧಾನಿಯಾಗಿರಬೇಕು.

ಕೊಟ್ಟಕುದುರೆಯನೇರಲರಿಯದೆ ಮತ್ತೊಂದು ಕುದುರೆಯ
ನೇರ ಬಯಸುವವರು ವೀರರೂ ಅಲ್ಲ ಧೀರರೂ ಅಲ್ಲ
ಕಾರಣ-ನೆರೆ ಮೂರು ಲೋಕವೆಲ್ಲವೂ ಹಲ್ಲಣವ ಹೊತ್ತುಕೊಂಡು
ತೊಳಲುತೈದಾರೆ ಗುಹೇಶ್ವರನೆಂಬ ಲಿಂಗವನವರೆತ್ತ ಬಲ್ಲರು?

ಕವಿ ಪರಿಚಯ

ಬಸವಣ್ಣ : ಹನ್ನೆರಡನೆಯ ಶತಮಾನದಲ್ಲಿ ಕಲ್ಯಾಣದಲ್ಲಿ ನಡೆದ ವಚನ ಚಳುವಳಿಯ ಕೇಂದ್ರವಾಗಿದ್ದವನು ಬಸವಣ್ಣ. ಬಿಜ್ಜಳ ದೊರೆಯ ಮಂತ್ರಿಯೂ ಆಗಿದ್ದ. ಜಾತಿ-ಮತಗಳ ತಾರತಮ್ಯಗಳಿಂದ ಮುಕ್ತವಾದ ಸಮಾನತೆಯ ಬದುಕಿಗಾಗಿ ಹಂಬಲಿಸಿ ಅದಕ್ಕಾಗಿ ಶ್ರಮಿಸಿದವನು. ಏಕಕಾಲಕ್ಕೆ ಪರಮ ಭಕ್ತನೂ, ಮಹಾನ್ ಕ್ರಾಂತಿಕಾರಿಯೂ ಆದವನು. ಅವನು ನಡೆಸಿದ ಆಂದೋಲನ ಕನ್ನಡನಾಡಿನ ಬದುಕಿನ ಸಾಮಾಜಿಕ, ಧಾರ್ಮಿಕ, ಸಾಹಿತ್ಯಿಕ, ಸಾಂಸ್ಕೃತಿಕ ನಕ್ಷೆಯನ್ನೆ ಬದಲಿಸಿತು. 'ಕೂಡಲಸಂಗಮದೇವ' ಎನ್ನುವ ಅಂಕಿತದಿಂದ ಇವನು ರಚಿಸಿರುವ ವಚನಗಳು ಕನ್ನಡ ಕಾವ್ಯಲೋಕವನ್ನು ಹಿಗ್ಗಿಸಿವೆ. ಮಾರ್ಗಕಾವ್ಯದ ಎದುರು ಜನವಾಣಿಯನ್ನು ಸಮರ್ಥ ಪ್ರತಿನಿಧಿಯಾಗಿ ನಿಲ್ಲಿಸಿದವನು ಬಸವಣ್ಣ. ಅಪ್ಪಟ ಮಾನವೀಯ ಸಮಾಜದ ರಚನೆಗಾಗಿ ತುಡಿದ, ದುಡಿದ ಶ್ರೇಯಸ್ಸು ಇವನದು.

ಅಲ್ಲಮಪ್ರಭು : ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲೆಯ ಬಳ್ಳಿಗಾವೆಯ ಅಲ್ಲಮ ೧೨ನೇ ಶತಮಾನದವನು. ಮೊದಲಿಗೆ ಮದ್ದಲಿಗನಾಗಿದ್ದನೆಂಬ ಐತಿಹ್ಯವಿದೆ. ತನ್ನ ಪ್ರಖರ ಚಿಂತನೆ ಮತ್ತು ಬೌದ್ಧಿಕತೆಗಳಿಂದ ಇಡಿ ವಚನಚಳುವಳಿಯ 'ಶೂನ್ಯಸಿಂಹಾಸನಾಧೀಶ, ಎನಿಸಿಕೊಂಡವನು. 'ಗುಹೇಶ್ವರ' ಅವನ ವಚನಗಳ ಅಂಕಿತ. ಬೆಡಗಿನ ವಚನಗಳ ಕರ್ತೃವಾಗಿ ಖ್ಯಾತನಾಗಿದ್ದಾನೆ. ಅಲ್ಲಮ ಕನ್ನಡ ಕಾವ್ಯ ಪರಂಪರೆ ಮತ್ತು ಅನುಭಾವ ಪರಂಪರೆಯ ಸಿದ್ಧಿಯ ಶಿಖರ. ಇವನ ವಚನಗಳು ಈ ಪರಂಪರೆಗಳ ಸಮೃದ್ಧಿ

ಮತ್ತು ಘನತೆಯನ್ನು ಹೆಚ್ಚಿಸಿವೆ. ವಚನ ಚಳುವಳಿಯ ಲೌಕಿಕ ಆಯಾಮಕ್ಕೆ ಅಧ್ಯಾತ್ಮದ ಆಯಾಮವನ್ನು ಒದಗಿಸಿ ಅಲ್ಲಮ ಅನನ್ಯನಾದವನು.

ಅಕ್ಕಮಹಾದೇವಿ : ಶಿವಮೊಗ್ಗ ಜಿಲ್ಲೆಯ ಉಡುತಡಿ ಗ್ರಾಮದ ಅಕ್ಕಮಹಾದೇವಿ ಕನ್ನಡದ ಮೊದಲ ಕವಿಯಿತ್ತಿ ಎನ್ನುವ ಖ್ಯಾತಿ ಪಡೆದವಳು. ೧೨ನೇ ಶತಮಾನದಲ್ಲಿ ನಡೆದ ಸಾಮಾಜಿಕ ಆಂದೋಲನದ ಸಂದರ್ಭದಲ್ಲಿ ತನ್ನ ಸಮಕಾಲೀನ ಶರಣರೆಲ್ಲರ ಗೌರವಾದರಗಳನ್ನು ಪಡೆದ ವಚನಕಾರ್ತಿ. ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ ಅವಳ ಅಂಕಿತವೂ ಹೌದು, ಆರಾಧ್ಯ ದೈವವೂ ಹೌದು. ತನ್ನ ಕಾವ್ಯದಷ್ಟೆ ತನ್ನ ಬದುಕಿನ ಕ್ರಮಕ್ಕೂ ಪ್ರಸಿದ್ಧಳಾದವಳು ಅಕ್ಕ. ಸಾಮಾನ್ಯ ಸಂಸಾರದ ಪರಿಚಿತ ಮಾದರಿಯನ್ನು ಮೀರಿ ಆತ್ಮಸಂಗಾತಿಯಾದ ದೈವ ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನನ ಹಂಬಲದಲ್ಲೆ ಬದುಕಿದ ದಿಟ್ಟಿ. ಈ ಸಂಬಂಧದ ಮೂಲಕ ಗಂಡ ಮತ್ತು ದಾಂಪತ್ಯದ ಹೊಸ ಭಾಷ್ಯ ಬರೆದು, ಕನ್ನಡ ಕಾವ್ಯದ ಹೆಗ್ಗುರುತಾದವಳು. 'ಯೋಗಾಂಗ ತ್ರಿವಿಧಿ' ಎಂಬ ಕೃತಿಯನ್ನು ಸಹ ರಚಿಸಿದ್ದಾಳೆ.

ಕಠಿಣ ಪದಗಳ ಅರ್ಥ :

ಹಲ್ಲಣ - ಜೀನು, ಭಾಂಡ-ಪಾತ್ರೆ, ಭಾಜನ-ಪಾತ್ರೆ ಒಪ್ಪ-ಅಂಗ ಸೌಷ್ಟವ, ಸೌಂದರ್ಯ, ಐಸಿರಿ-ಸಂಪತ್ತು, ಹದುಳ-ಕುಶಲ, ಕುಳಿ-ಗುಂಡಿ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಬದುಕು ಅಮೂಲ್ಯವಾದುದು ಎನ್ನುವುದನ್ನು ವಚನಕಾರರು ಹೇಗೆ ಪ್ರತಿಪಾದಿಸುತ್ತಾರೆ?
೨. ಸೌಜನ್ಯ ಮತ್ತು ಮಾನವೀಯ ಕಳಕಳಿಗಳು ಮುಖ್ಯ ಎನ್ನುವ ವಚನಕಾರರ ನಿಲುವನ್ನು ಚರ್ಚಿಸಿ.
೩. ಕೋಪ, ದಯೆ ಮತ್ತು ಆಸೆಯನ್ನು ಕುರಿತಂತೆ ವಚನಕಾರರ ವಿಚಾರಗಳೇನು? ತಿಳಿಸಿ.
೪. ಕೊಟ್ಟ ಕುದುರೆ ಎನ್ನುವುದು ಏನನ್ನು ಪ್ರತಿನಿಧಿಸುತ್ತದೆ ? ವಿಚಾರ ಮಾಡಿ.
೫. ಲೋಕದೊಳಗೆ ಹುಟ್ಟಿದ ಬಳಿಕ ಹೇಗೆ ಸಮಾಧಾನಿಯಾಗಿರುವುದು ಹೇಗೆಂದು ಅಕ್ಕ ತಿಳಿಸುತ್ತಾಳೆ?
೬. ಅಕ್ಕ ಹೇಳುವ ಲೋಕದ ಸ್ವರೂಪವೇನು?

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೨. ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ

- ದ.ರಾ. ಬೇಂದ್ರೆ

ಆಶಯ :

"ಪ್ರಕೃತಿಗೆ ಮನುಷ್ಯರ ಆಸೆಗಳನ್ನು ಪೂರೈಸುವ ಶಕ್ತಿಯಿದೆ; ದುರಾಸೆಗಳನ್ನಲ್ಲ." - ಮಹಾತ್ಮ ಗಾಂಧಿ.

ಭೂಮಿ ಒಂದು ಅಪೂರ್ವ ಗ್ರಹ. ಇದೊಂದು ಅನೇಕ ಜೀವಸಂಕುಲಗಳನ್ನೊಳಗೊಂಡ, ಅಪಾರ ಜೀವ ಚೈತನ್ಯವುಳ್ಳ ವಿಸ್ಮಯ! ಯಾವ ಪ್ರತಿಫಲಾಪೇಕ್ಷೆಯೂ ಇಲ್ಲದೆ ಸಕಲ ಜೀವರಾಶಿಗಳನ್ನು ಪೊರೆದು, ಪೋಷಿಸುವ ಏಕಮಾತ್ರ ಆಕಾಶಕಾಯ. ನಮ್ಮ ಜನಪದರಿಗೆ ಅನ್ನದಾತೆ, ತಾಯಿ, ದೇವಿ. ಆದ್ದರಿಂದಲೇ ಅವರು ಬೆಳಗ್ಗೆ ಎದ್ದ ಕೂಡಲೇ 'ಎಳ್ಳು ಜೀರಿಗೆ ಬೆಳೆಯೊಳ ಭೂಮಾಯ್ತಿಯನ್ನು ಗಳಿಗೆ ನೆನೆದು ಪೂಜಿಸುವುದು. ಇಂದು ಇಂತಹ ಭಾವನಾತ್ಮಕ ಸಂಬಂಧ ನಾಶವಾಗಿ ವ್ಯಾವಹಾರಿಕವಾಗಿ ನೋಡುವ ಪ್ರಕ್ರಿಯೆ ಆರಂಭವಾಗಿದೆ.

ಭೂಮಿ ಸೌಂದರ್ಯವನ್ನೇ ಮೈವೆತ್ತುಕೊಂಡ ಅಪ್ರತಿಮ ಚೆಲುವೆ. ಸೌಂದರ್ಯದ ಗಣಿ. ಈ ಚೆಲುವೆ ಅನೇಕ ಕವಿಗಳ ವರ್ಣನೆಗೂ ಪಾತ್ರಗಳಾಗಿದ್ದಾಳೆ. ಅವಳ ಚೆಲುವು ಮನುಷ್ಯರ ಕಣ್ಣು ಕುಕ್ಕಿರಬೇಕು! ಅದಕ್ಕಾಗಿಯೇ ಹೇಗಾದರೂ ಅವಳನ್ನು ಭೋಗಿಸುವ ಪಣ ತೊಟ್ಟಿರಬೇಕು!

ಇಂದು ವಿಶ್ವದ ಅನೇಕ ಚೆಲುವು, ವಿಸ್ಮಯಗಳನ್ನು ಸ್ವಲ್ಪಮಟ್ಟಿಗಾದರೂ ಅರ್ಥೈಸಲು ವಿಶ್ಲೇಷಿಸಲು ಸಾಧ್ಯವಾಗಿರುವುದು ಮನುಷ್ಯ ಜೀವಿಗೆ ಮಾತ್ರ. ಭೂಮಿಯಿಲ್ಲದೆ ತಾನಿಲ್ಲವೆಂಬ ಸತ್ಯ ಗೊತ್ತಿದ್ದೂ ಈ ಬುದ್ಧಿವಂತ ಪ್ರಾಣಿ ಅದನ್ನು ಬಳಸಿಕೊಳ್ಳುತ್ತಿರುವ ಹುಚ್ಚಾಟಕ್ಕೆ ಗಾಬರಿಯಾಗುತ್ತದೆ. ವಿಪರೀತದ ಗಣಿಗಾರಿಕೆ, ನದಿ, ಬೆಟ್ಟ, ಗುಡ್ಡ, ಕಾಡು, ಗಾಳಿ, ಮಣ್ಣು, ನೆಲ, ಆಕಾಶ... ಎಲ್ಲವನ್ನು ಎಗ್ಗಿಲ್ಲದೆ ಬೇಟೆಯಾಡುತ್ತಿದ್ದೇವೆ. ನಗರಗಳಲ್ಲಂತೂ ಕಡಿಮಾಣವಿಲ್ಲದೆ ನಿರ್ಮಾಣಗೊಳ್ಳುತ್ತಿರುವ ಅಪಾರ್ಟ್‌ಮೆಂಟುಗಳು, ಫ್ಲೈ ಓವರ್‌ಗಳು, ಮೆಟ್ರೋ ಸಾರಿಗೆ ಕಾಮಗಾರಿಗಳು, ಮಲಿನಗೊಳ್ಳುತ್ತಿರುವ ನೀರು, ಗಾಳಿ, ಕಲುಶಿತಗೊಂಡು

ದುಃಖಿಸುತ್ತಿರುವ ಅಳಿದುಳಿದಿರುವ ಕೆಲವೇ ಕೆರೆಗಳು- ಇವೆಲ್ಲವು ವ್ಯವಸ್ಥೆಯ ದೂರದೃಷ್ಟಿಯ ಕೊರೆತೆಗೆ ಹಿಡಿದ ಕನ್ನಡಿಯಂತಿವೆ. ಅಂತರ್ಜಲಕ್ಕೂ ಕನ್ನ ಹಾಕಿರುವ ನಮಗೆ ಜಲ ತಜ್ಞರ, ವಿಜ್ಞಾನಿಗಳ, ಪರಿಸರವಾದಿಗಳ ಎಚ್ಚರಿಕೆಯ ಗಂಟೆಯ ಸದ್ದೂ ಕೇಳುತ್ತಿಲ್ಲ. ಪ್ರಾಕೃತಿಕ ಸಂಪತ್ತು ಮುಂದಿನ ಜನಾಂಗಕ್ಕೂ ಸೇರಿದದ್ದೆನ್ನುವುದನ್ನು ಮರೆತಂತೆ ವರ್ತಿಸುತ್ತಿದ್ದೇವೆ; ಎಲ್ಲವನ್ನೂ ಬರಿದಾಗಿ ಸುತ್ತಿದ್ದೇವೆ.

ನಮ್ಮ ಸ್ವಾರ್ಥ, ದುರಾಸೆ, ದುರ್ವರ್ತನೆಗಳೆಲ್ಲವನ್ನೂ ಮೌನವಾಗಿ ಸಹಿಸಿ, ಮರುಗಿ, ಕೊರಗಿ, ತನ್ನೊಳಗೇ ಸಂಕಟಪಡುತ್ತಿರುವವಳು ಈ 'ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ'. ಇವಳ ಆರ್ತನಾದವನ್ನು ಕವಿ ಬೇಂದ್ರೆ ತಮ್ಮ ಕವಿತೆಯಲ್ಲಿ ಕಾಣಿಸಿರುವ ರೀತಿ ಮನಕಲಕುವಂತಿದೆ. ಇನ್ನಾದರೂ ಎಚ್ಚೆತ್ತು 'ಇರುವುದೊಂದೇ ಭೂಮಿ'ಯನ್ನು ರಕ್ಷಿಸಿ, ಉಳಿಸಿಕೊಳ್ಳಬೇಕಾದ ತುರ್ತು ಮತ್ತು ಜವಾಬ್ದಾರಿ ನಮ್ಮೆಲ್ಲರದಾಗಿದೆ.

ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ, ಚೆದರಿ ನಿಂತಾಳ ನೋಡೋ ಬೆದರಿ ನಿಂತಾಳ
||ಪಲ್ಲವಿ||

ಹೊಳಿಹಳ್ಳ ತೊರೆದಾವೋ
ಆಗದವರ ಹೊಟ್ಟೆ ಉರದಾವೋ
ಗೆಣೆಯ ಉರದಾವ
ಅಂಥವರ ದಿಟ್ಟಿ ಮನಿ ಮುರದಾವ;
ಅದನ ತಾ ಕಂಡು ಕೊರಗ್ಯಾಳೋ
ಮರುಗ್ಯಾಳೋ
ಸೊರಗ್ಯಾಳೋ
ಹೂ ಕಾಯಿ ಹಣ್ಣು ತುಂಬಿದ ಬನದಾಗ ||ಚಿಗರಿಗಂಗಳ....

ಬ್ಯಾಟಿ ನಾಯೊದರಾವೋ
ಹಸುಜೀವ ಬೆದರಾವೋ
ಗಳಗಳನೆ ಗಿಡದೇಲಿ ಉದರಾವೋ
ಗೆಣೆಯಾ ಉದರಾವ
ದಿನ್ನಿ ಮಡ್ಡಿ ಗುಡ್ಡ ಅದರಾವ;
ಅದನ ತಾ ಕಂಡು ನೊಂದಾಳೋ
ಬೆಂದಾಳೋ

ಅಂದಾಳೊ
ಇದು ಎಂಥಾ ಜೀವದ ಬ್ಯಾಟಿ ಹಾಡೇ ಹಗಲೆ || ಚಿಗರಿಗಂಗಳ....

ಆಳುಗಳ ಹೋರಾಟ
ಆಳುವವರಿಗೆ ಆಟ
ಗಾಳಕ್ಕ ಸಿಕ್ಕ ಮೀನದ ಗೋಳಾಟೋ
ಗೆಣೆಯಾ ಗೋಳಾಟಾ
ಗೆದ್ದವರ ಇದ್ದವರ ಹಾರಾಟೋ;
ಅರೆಸತ್ತ ಜೀವಾ ಕೊಳೆತಾವೊ
ಹುಳತಾವೊ
ಅಳತಾವೊ
ಹಸುಗೂಸು ತಿರುಗಿ ಹೊಟ್ಟಾಗ ಹುಗಿದ್ದಾಗ ||ಚಿಗರಿಗಂಗಳ....

ತನ್ನತ್ತಾ ಸುತ್ತಾಳೊ
ಹೊತ್ತಿನ ಬೆನ್ನತ್ತಾಳೊ
ತಿಂಗಳಿನ ಬಗಲಾಗೆತ್ತಾಳೊ
ಗೆಣೆಯಾ ಎತ್ತಾಳೋ
ಉಕ್ಕುಕ್ಕುವ ದುಃಖ ಒಳಗೊತ್ತಾಳೊ;
ನಿಂತ ನೆಲವೆಂದು ಕಡಿಲಾಕೊ
ಹಡಿಲಾಕೊ
ಒಡಿಲಾಕೊ
ಒಡವ್ಯಲ್ಲೋ ಮಗನೆ ಉಸಿರಿದ್ದೊಡಲಂತಾಳೊ ||ಚಿಗರಿಗಂಗಳ....

ಕವಿ ಪರಿಚಯ

ದ.ರಾ. ಬೇಂದ್ರೆ : ದತ್ತಾತ್ರೇಯ ರಾಮಚಂದ್ರ ಬೇಂದ್ರೆಯವರ ಕಾವ್ಯನಾಮ 'ಅಂಬಿಕಾಕನಯದತ್ತ'. ಧಾರವಾಡ ಇವರ ಹುಟ್ಟೂರು. ಧಾರವಾಡದ ಆಕಾಶವಾಣಿ ಕೇಂದ್ರದ ಸಲಹೆಗಾರರಾಗಿ ಹೈಸ್ಕೂಲು, ಹಾಗೂ ಕಾಲೇಜುಗಳಲ್ಲಿ ಅಧ್ಯಾಪಕರಾಗಿ ಸೇವೆ ಸಲ್ಲಿಸಿದ್ದಾರೆ. ಜಯ ಕರ್ನಾಟಕ, ಜೀವನ ಪತ್ರಿಕೆಗಳ ಸಂಪಾದಕರಾಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದಾರೆ. ಇವರ ಕೆಲವು ಕವನ ಸಂಕಲನಗಳು: ಗರಿ, ಸಖೀಗೀತ, ಉಯ್ಯಾಲೆ, ನಾದಲೀಲೆ, ಅರಳು ಮರಳು, ಗಂಗಾವತರಣ, ನಾಕುತಂತಿ, ಕೃಷ್ಣಹುಮಾರಿ, ಚೈತ್ಯಾಕ್ಷಿ, ಮತ್ತೆ ಬಂತು ಶ್ರಾವಣಾ, ಕರುಳಿನ ವಚನಗಳು.

ನಾಟಕಗಳು: ಸಾಯೋ ಆಟ, ದೆವ್ವದ ಮನೆ, ಜಾತ್ರೆ, ಮಂದಿ ಮನೆ, ಮಂದಿ ಮದಿವಿ, ಗೋಲ್, ತಿರುಕರ ಪಿಡುಗು ಮೊದಲಾದುವು; ನಿರಾಭರಣ ಸುಂದರಿ, ಮಾತೆಲ್ಲಾ ಜ್ಯೋತಿ ಇವರ ಸಣ್ಣ ಕಥೆಗಳಾದರೆ, ಟ್ಯಾಗೂರರ ನೂರೊಂದು ಕವನ, ಕಬೀರ ವಚನಾವಳಿ, ಚೀನಾದ ಬಾಳು ಬದುಕು, ಕನ್ನಡ ಮೇಘದೂತ ಇವು ಅವರ ಕೆಲವು ಅನುವಾದಗಳು. ಸಾಹಿತ್ಯ ಮತ್ತು ವಿಮರ್ಶೆ, ಸಾಹಿತ್ಯ ಸಂಶೋಧನೆ ಸಾಹಿತ್ಯದ ವಿರಾಟ್ ಸ್ವರೂಪ - ವಿಮರ್ಶಾ ಕೃತಿಗಳು.

ಮೈಸೂರು, ಕರ್ನಾಟಕ ಹಾಗೂ ಕಾಶಿ ವಿಶ್ವವಿದ್ಯಾಲಯಗಳು ಇವರಿಗೆ ಗೌರವ ಡಾಕ್ಟರೇಟ್ ಪದವಿ ನೀಡಿ ಗೌರವಿಸಿವೆ. ೧೯೪೩ರಲ್ಲಿ ಶಿವಮೊಗ್ಗದ ೨೭ನೇ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಮ್ಮೇಳನಾಧ್ಯಕ್ಷತೆಯನ್ನು ವಹಿಸಿದ್ದರು. ಇವರಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ, ಕೇಳರ್ ಪ್ರಶಸ್ತಿ, ಪದ್ಮಶ್ರೀ ಪ್ರಶಸ್ತಿ, ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿ - ಹೀಗೆ ಹಲವು ಪ್ರಶಸ್ತಿಗಳು ಲಭಿಸಿವೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. 'ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ' ಕವಿತೆಯಲ್ಲಿ ನಿರೂಪಿತವಾಗಿರುವ ಬೇಟೆಯ ರೂಪಗಳು ಯಾವುವು?
೨. ಮನುಷ್ಯರು ಭೂಮಿಯ ಮೇಲೆ ನಡೆಸುತ್ತಿರುವ ನಿರಂತರ ದಾಳಿ ಸರಿಯೇ? ಚರ್ಚಿಸಿ.
೩. ಕವಿತೆಯಲ್ಲಿರುವ ತಲ್ಲಣದ ಸ್ವರೂಪವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
೪. ಕವಿತೆಯಲ್ಲಿನ ಸಂಕಟ ನಿಮ್ಮದೂ ಹೌದಾ? ಹಾಗಾದರೆ ಪ್ರಕೃತಿ ಮತ್ತು ಮನುಷ್ಯರ ಸಂಬಂಧ ಹೇಗಿರಬೇಕೆಂದು ಬಯಸುತ್ತೀರಿ?
೫. "ಮನುಷ್ಯರ ಆಧುನಿಕ ಜೀವನ ಕ್ರಮಕ್ಕೆ ಪರಿಸರ ನಾಶ ಅನಿವಾರ್ಯ"- ಈ ಹೇಳಿಕೆಗೆ ನಿಮ್ಮ ಅಭಿಪ್ರಾಯಗಳೇನು?
೬. ಪ್ರಕೃತಿ ಮತ್ತು ಮನುಷ್ಯರ ನಡುವಿನ ಸಂಘರ್ಷ ಕವಿತೆಯಲ್ಲಿ ವ್ಯಕ್ತಗೊಂಡಿರುವ ಬಗೆ.
೭. ನೀವು ನೋಡಿರುವ ಪರಿಸರನಾಶವನ್ನು ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.
೮. ಭೂಮಿಯನ್ನು ಹೆಣ್ಣಾಗಿ ಪರಿಭಾವಿಸುವುದು ಯಾಕೆ? ಸರಿಯೆ? ಚರ್ಚಿಸಿ.

೪. ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು.

- ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್

ಆಶಯ :

ಪ್ರಜಾಪ್ರಭುತ್ವವೆಂದರೆ 'for the people, by the people, of the people', ಎಂಬ ವ್ಯಾಖ್ಯಾನವಿದೆ. ಪ್ರಪಂಚದಲ್ಲೆ ದೊಡ್ಡ ಪ್ರಜಾಪ್ರಭುತ್ವ ರಾಷ್ಟ್ರವಾಗಿರುವ ನಮ್ಮಲ್ಲಿ ಅದು ಅನೇಕ ವೇಳೆ ಪ್ರಜೆಗಳ ಪಾಲಿಗೆ 'for, by, of' ಗಳಾಗಿರುವ ಸಾಧ್ಯತೆಯನ್ನು ಕಡೆಗಣಿಸುವಂತಿಲ್ಲ. ಪ್ರಜೆಗಳಿಂದ ಪ್ರಜೆಗಳಿಗಾಗಿ ನಡೆಯಬೇಕಾದ ಪ್ರಭುತ್ವ ಕುರಿ ಮತ್ತು ಕೆಟ್ಟ ಕುರುಬನ ಸಂಬಂಧವಾಗಿಬಿಟ್ಟರೆ ಆಗ ದಬ್ಬಾಳಿಕೆಯಲ್ಲದೆ ಸಮಾನತೆ ಎಲ್ಲಿಯದು? ಕುರಿಗಳಂತು ಕನ್ನಡಿಯ ಗಂಟನ್ನು ನೆಚ್ಚಿಕೊಂಡು ಹೇಗೋ ಕಾಲ ದೂಡುತ್ತಿವೆ. ಕುರಿಗಳ ಸುಖದುಃಖಗಳನ್ನು ನೋಡದ, ಅದು ಸತ್ತರೂ ತನ್ನ ಲೋಲುಪತೆಯಲ್ಲೆ ಮಗ್ನವಾಗಿರುವ, ಅದನ್ನೆ ಬಲಿ ಕೊಟ್ಟು ತನಗೆ ಬೇಕಾದದ್ದನ್ನು ಜೊಲ್ಲು ಸುರಿಸಿ ಪಡೆದುಕೊಳ್ಳುವ, ಕಡುಧೂರ್ತತೆಯ 'ಪ್ರಭುತೆ' ಇಲ್ಲಿ ವರ್ಣರಂಜಿತವಾಗಿ ಚಿತ್ರಿತವಾಗಿದೆ. ಕನ್ನಡದ ಪ್ರಖ್ಯಾತ ನವ್ಯಕವನವಾದ ಇದು 'ಕುರಿಗಳು' ಎನ್ನುವ ರೂಪಕವನ್ನು ನಮ್ಮ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ ಕಾಣೆಯಾಗಿರುವ 'ಎಚ್ಚರ'ದ ಬಗೆಗಿನ ತೀವ್ರ ವಿಡಂಬನೆಯಾಗಿ ಬಳಸಿರುವುದನ್ನು ಗಮನಿಸಬಹುದು.

ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು :

ಸಾಗಿದ್ದೇ
ಗುರಿಗಳು.

ಮಂದೆಯಲ್ಲಿ ಒಂದಾಗಿ, ಸ್ವಂತತೆಯೇ ಬಂದಾಗಿ

ಇದರ ಬಾಲ ಅದು, ಮತ್ತೆ ಅದರ ಬಾಲ ಇದು ಮೂಸಿ,

ದನಿ ಕುಗ್ಗಿಸಿ, ತಲೆ ತಗ್ಗಿಸಿ

ಹುಡುಕಿ ಹುಲ್ಲು ಕಡ್ಡಿ ಮೇವು, ಅಂಡಲೆಯುವ ನಾವು, ನೀವು,

ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು.

ನಮಗೊ ನೂರು ಗುರಿಗಳು

ಎಡದಿಕ್ಕಿಗೆ, ಬಲದಿಕ್ಕಿಗೆ, ಒಮ್ಮೆ ದಿಕ್ಕುಪಾಲಾಗಿ,

ಒಮ್ಮೆ ಅದೂ ಕಳೆದುಕೊಂಡು ತಾಟಸ್ಥ್ಯದಿ ದಿಕ್ಕೆಟ್ಟು
ಹೇಗೆ ಹೇಗೋ ಏಗುತ್ತಿರುವ,
ಬರೀ ಕಿರುಚಿ ರೇಗುತ್ತಿರುವ,
ನೋಣ ಕೂತರೆ ಬಾಗುತ್ತಿರುವ,
ತಿನದಿದ್ದರು ತೇಗುತ್ತಿರುವ,
ಹಿಂದೆ ಬಂದರೊದೆಯದ, ಮುಂದೆ ಬರಲು ಹಾಯದ
ಅವರು, ಇವರು, ನಾವುಗಳು
ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು :

ಮಂದೆಯಲ್ಲಿ ಎಲ್ಲವೊಂದೆ ಆದಾಗಲೇ ಸ್ವರ್ಗ ಮುಂದೆ :
ಅದಕ್ಕಿಲ್ಲವೆ ನಾವುತ್ತರ?
ಮೆದುಳಿನಲ್ಲಿ ತಗ್ಗುತ್ತರ,
ಹಿರಿದು, ಕಿರಿದು ಮಾಯಿಸಿ,
ಒಬ್ಬೊಬ್ಬರಿಗಿರುವ ಮೆದುಳ ಸ್ವಾರ್ಥದ ಉಪಯೋಗದಿಂದ
ಇಡಿ ಮಂದೆಗೆ ಹಾಯಿಸಿ,
ಹೊಟ್ಟೆ ಬಟ್ಟೆಗೊಗ್ಗದಂಥ ಕಲೆಯ ಕರ್ಮಕಿಳಿಯದಂತೆ
ತಲೆಬೆಲೆಯ ಸುಧಾರಿಸಿ,
ಬಿಳಿಕಪ್ಪಿನ ದ್ವಂದ್ವಗಳಿಗೆ ಮಾಡಿಸಿ ಸಮಜಾಯಿಸಿ,
ನಮ್ಮ ಮೆದುಳು ಶುದ್ಧಿಯಾಗಿ, ಬುದ್ಧಿ ನಿರ್ಬುದ್ಧಿಯಾಗಿ,
ಕೆಂಬಣ್ಣವನೊಂದೆ ಪೂಸಿ,
ಅದರ ಬಾಲ ಇದು, ಮತ್ತೆ ಇದರ ಬಾಲ ಅದು ಮೂಸಿ
ನಡೆವ ನಮ್ಮೊಳೆಲ್ಲಿ ಬಿರುಕು?

ನಮ್ಮ ಕಾಯ್ಲು ಕುರುಬರು :

ಪುಟಗೋಸಿಯ ಮೊನ್ನೆ ತಾನೆ ಕಿತ್ತು ಪಂಚಿಯುಟ್ಟವರು,

ಶಾನುಭೋಗ ಗೀಚಿದಕ್ಕೆ ಹೆಬ್ಬೆಟ್ಟನು ಒತ್ತುವವರು,

ಜಮಾಬಂದಿಗಮಲ್ದಾರ ಬರಲು ನಮ್ಮೊಳೊಬ್ಬ ನನ್ನ

ಮೆಚ್ಚಿ, ಮಸೆದ ಮಚ್ಚಿ ಹಿರಿದು ಕಚಕೆಂದು ಕೊಚ್ಚಿ ಕತ್ತ,

ಬಿರಿಯಾನಿಯ ಮಹರುಬಾನಿ ಮಾಡಿ ಕೈಯ ಜೋಡಿಸುತ್ತ

ಕಿಸೆಗೆ ಹಸಿರುನೋಟು ತುರುಕಿ, ನುಡಿಗೇ ಬೆಣ್ಣೆ ಹಚ್ಚುವವರು.

ಬಿಸಿಲಿನಲ್ಲಿ ನಮ್ಮ ದೂಡಿ, ಮರದಡಿಯಲಿ ತಾವು ಕೂತು

ಮಾತು, ಮಾತು, ಮಾತು, ಮಾತು
 ಮಾತಿನ ಗೈರತ್ತಿನಲ್ಲಿ ಕರಾಮತ್ತು ನಡೆಸುವವರು.
 ನಮ್ಮ ಮೈಯು ತುಪ್ಪಟವ ರವಷ್ಟು ಬಿಡದಹಾಗೆ ಸವರಿ
 ಕಂಬಳಿಗಳ ನೇಯುವಂಥ ಯೋಜನೆಗಳ ಹಾಕುವವರು.
 ಮಾರಮ್ಮನ ಮುಡಿಗೇ ಕೆಂಪು ದಾಸವಾಳ ಆಯುವವರು.
 ಬೆಟ್ಟ ದಾಟಿ ಕಿರುಬ ನುಗ್ಗಿ, ನಮ್ಮೊಳಿಬ್ಬರನ್ನ ಮುಗಿಸಿ
 ನಾವು 'ಬ್ಯಾ, ಬ್ಯಾ' ಎಂದು ಬಾಯಿಬಾಯಿ ಬಡಿದುಕೊಂಡು
 ಬೊಬ್ಬೆ ಹಾಕುತ್ತಿದ್ದರೂ
 ಚಕ್ಕಭಾರ ಆಟದಲ್ಲೆ ಮಗ್ಗರು ಇವರೆಲ್ಲರು
 ನಮ್ಮ ಕಾಯ್ತು ಗೊಲ್ಲರು.

ದೊಡ್ಡಿಯಲ್ಲಿ ಕೂಡಿಹಾಕಿ ನಿಲ್ಲಲಿಲ್ಲ, ಕೂರಲಿಲ್ಲ,
 ಎದ್ದರೆ ಸರಿದಾಡಲಿಲ್ಲ, ಬಿದ್ದರೆ ಹರಿದಾಡಲಿಲ್ಲ,
 ದೀಪದ ದೌಲತ್ತು ಇಲ್ಲ,
 ಗಾಳಿಯ ಗಮ್ಮತ್ತು ಇಲ್ಲ,
 ಕಿಂಡಿಯಿಂದ ತೆವಳಿಬಂದ ಗಾಳಿ ಕೂಡ ನಮ್ಮದೇನೆ :
 ನಮ್ಮ ಮುಂದೆ ಕುರಿಯ ಸುಲಿದು, ಆಚೆ ಅಲ್ಲಿ ಉಪ್ಪು ಸವರಿ
 ಒಣಗಲಿಟ್ಟ ಹಸಿತೋಗಲಿನ ಬಿಸಿಬಿಸಿ ಹಬೆವಾಸನೆ,
 ಇರಿಯುತಿಹುದು ಮೂಗನೆ!
 ಕೊಬ್ಬಿರುವಿ ಮಬ್ಬಿನಲ್ಲಿ, ಮೈನಾತದ ಗಬ್ಬಿನಲ್ಲಿ
 ಇದರ ಉಸಿರು ಅದು, ಮತ್ತೆ ಅದರ ಉಸಿರು ಇದು ಮೂಸಿ
 ಹೇಸಿದರು ನಿಭಾಯಿಸಿ,
 ತಾಳ್ಮೆಯನೆ ದಬಾಯಿಸಿ,
 ನಮ್ಮನಾವೆ ಅಂದುಕೊಂಡೊ, ಉಗುಳುನುಂಗಿ ನೊಂದುಕೊಂಡೊ,
 ನಂಬಿಕೊಂಡು ಏಗುತಿರುವ ನಾವು, ನೀವು, ಇಡೀ ಹಿಂಡು
 ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು.

ತಳವೂರಿನ ಕುರುಬ ಕಟುಕನಾದ; ಅವನ ಮಚ್ಚೊ ಆಹ!
 ಏನು ಝಳಪು, ಏನು ಹೊಳಪು, ಏನು ಜಾದು, ಏನು ಮೋಹ!
 ಆ ಹೊಳಪಿಗೆ ದಂಗಾಗಿ, ಕಣ್ಣಿಗದೇ ರಂಗಾಗಿ,
 ಒಳಗೊಳಗೇ ಜಂಗಾಗಿ

ಕಣ್ಣುಕುಕ್ಕಿ, ಸೊಕ್ಕಿರುವ, ಹೋಗಿಹೋಗಿ ನೆಕ್ಕಿರುವ,
 ಕತ್ತನದಕೆ ತಿಕ್ಕಿರುವ,
 ನಾವು, ನೀವು, ಅವರು ಇವರು
 ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು !
 ಮಚ್ಚಿನ ಆ ಮೆಚ್ಚಿನಲ್ಲಿ, ಅದರಾಳದ ಕಿಚ್ಚಿನಲ್ಲಿ
 ಮನೆ ಮಾಡಿವೆ ಹುಚ್ಚಿನಲ್ಲಿ
 ನಮ್ಮೆಲ್ಲರ ಗುರಿಗಳು!

ಕುರಿಗಳು, ಸಾರ್, ಕುರಿಗಳು.....

ಕವಿ ಪರಿಚಯ

ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್ (೧೯೩೬....): ಬೆಂಗಳೂರು ಸಮೀಪದ ದೇವನಹಳ್ಳಿಯ ನಿಸಾರ್ ಅಹಮದ್ ಅವರು ವಿಜ್ಞಾನ ವಿಭಾಗದಲ್ಲಿ ಸ್ನಾತಕೋತ್ತರ ಪದವಿಗಳಿಸಿ, ಅನೇಕ ಸರ್ಕಾರಿ ಕಾಲೇಜುಗಳಲ್ಲಿ ಪ್ರಾಧ್ಯಾಪಕರಾಗಿ, ಕನ್ನಡ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರಾಗಿ ಸೇವೆ ಸಲ್ಲಿಸಿದವರು. 'ನಿತ್ಯೋತ್ಸವ'ದ ಕವಿಯೆಂದು ಖ್ಯಾತರಾದವರು. ಇವರ ಕೃತಿಗಳು:

- * ಕವನಸಂಕಲನ : ಮನಸು ಗಾಂಧಿ ಬಜಾರು, ನೆನೆದವರ ಮನದಲ್ಲಿ, ಸಂಜೆ ಐದರ ವೇಳೆ, ನಾನೆಂಬ ಪರಕೀಯ, ಸ್ವಯಂ ಸೇವೆಯ ಗಿಳಿಗಳು ಇತ್ಯಾದಿ.
- * ಅನುವಾದಗಳು : ಷೇಕ್ಸ್‌ಪಿಯರನ 'ಎ ಮಿಡ್ ಸಮ್ಮರ್ ನೈಟ್ಸ್ ಡ್ರೀಂ' ಮತ್ತು 'ಒಥೆಲೊ' ನಾಟಕಗಳು. ರಷ್ಯನ್ ಕಥೆಗಳ ಅನುವಾದ 'ಬರೀ ಮರ್ಯಾದಸ್ಥರೆ' ಮತ್ತು ಪಾಬ್ಲೊನೊರೊಡಾನ ಕವಿತೆಗಳು.
- * ಗದ್ಯಕೃತಿಗಳು : ಇದು ಬರಿ ಬೆಡಗಲ್ಲೊ ಅಣ್ಣ, ಮನದೊಂದಿಗೆ ಮಾತುಕಥೆ, ಹಿರಿಯರು ಹರಸಿದ ಹೆದ್ದಾರಿ, ಅಚ್ಚು ಮೆಚ್ಚು ಇತ್ಯಾದಿ.
- * ಭಾವಗೀತೆಗಳ ಧ್ವನಿಸುರುಳಿ - ನಿತ್ಯೋತ್ಸವ.

ನಿಸಾರರು ಕರ್ನಾಟಕ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪ್ರಶಸ್ತಿ, ವಿಶ್ವಮಾನವ ಪ್ರಶಸ್ತಿ, ಡಾ. ಸಾಶಿಮ ಪ್ರಶಸ್ತಿ, ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಗೌರವ ಡಾಕ್ಟರೇಟ್ ಪ್ರಶಸ್ತಿ ಮತ್ತು ಬಹುಮುಖ್ಯವಾಗಿ ಪದ್ಮಶ್ರೀ ಪ್ರಶಸ್ತಿಗಳನ್ನು ಗಳಿಸಿದ್ದಾರೆ.

ಪ್ರಶ್ನೆಗಳು :

೧. ಕುರಿಗಳು ಎಂದರೆ ಯಾರು? ಮತ್ತು ಯಾಕೆ ?
೨. ನಾವೆಲ್ಲರೂ ಕುರಿಗಳು ಎಂದು ಕವಿ ಅಭಿಪ್ರಾಯ ಪಡಲು ಕಾರಣವೇನು?
೩. ಕುರಿಗಳನ್ನು ಕಾಯುತ್ತಿರುವ ಕುರುಬನ ಮನಃಸ್ಥಿತಿ ಹೇಗಿದೆ?
೪. ಕುರಿ ಮತ್ತು ಕುರುಬನ ಸಂಬಂಧದ ಸ್ವರೂಪವೇನು?
೫. ನಮ್ಮ ವ್ಯವಸ್ಥೆಯ ವಿಡಂಬನೆ ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಮೂಡಿದೆ
೬. ನೀವು ಕುರಿಗಳು ಎಂಬುದನ್ನು ಒಪ್ಪುವಿರಾ? ಅಲ್ಲವೆಂದರೆ ಹೇಗೆ?
೭. ಕುರಿಗಳಾಗದೆ ಬದುಕುವುದು ಸಾಧ್ಯವೆ? ವಿವೇಚಿಸಿ.

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BANGALORE UNIVERSITY
Department of Hindi
Jnanna Bharathi, Bangalore-560056

PROCEEDINGS OF THE MEETING of the Under Graduate Board of Studies in Hindi held on 22/06/2016 at 11 am in the Department of Hindi, Bangalore University, Bangalore-560056

MEMBERS PRESENT

SIGNATURE

1. Dr. B. Ganesh	-	Chairman	Sd/-
2. Dr. Thyagaraja. R.	-	Member	Sd/-
3. Sri. Madhana Mohan Reddy. C.	-	Member	Sd/-
4. Dr. B.M. Babitha	-	Member	Sd/-
5. Prof. Mohamed Anzarul Haq	-	Member	Sd/-
6. Dr. Shobha. L	-	Member	Sd/-
7. Dr. Asha D. Shirolikar	-	Member	Sd/-

MEMBERS ABSENT

1. Dr. Vidyashree	-	Member
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RESOLUTION NO.1

1. Panels of examiners for Degree examination in Hindi under Annual and Semester scheme 2016-2017.
2. Resolved to recommend the panels of examiners in Hindi for the examinations as appended in the Annexure 1 and 2 mentioned below:

- 1.1 Degree examinations in Hindi under Annual scheme – 2016 – 2017 Annexure-1
1.2 Degree examinations in Hindi under Semester scheme – 2016 – 2017 Annexure-2

RESOLUTION NO .2

1. Syllabus and text books for Degree courses – B.A., B.Music, B.F.A., B.Sc., M.Sc (Biological Sciences), B.S(4),B.Com., M.B.S.,B.B.A., B.H.M., M.T.A., B.C.A., B.Sc.(FAD) (Language under Part 1) for 2016-17and 2017-18 Under semester scheme (CBCS)
2. Resolved to Change the syllabus and text books for B.A., B.Music, B.F.A., B.Sc., M.Sc (Biological Sciences), B.S.(4), B.Com., M.B.S.,B.B.A.,B.H.M., M.T.A.,B.C.A., B.Sc. (FAD) (Language under Part 1) under semester scheme for 2016-17 and 2017-18 appended in the Annexure 1, 2, 3, 4 and 5 mentioned below:

- 2.1 Syllabus and text books for Degree courses - B.A., B.Music, B.F.A under semester scheme (Language under Part 1) – 2016 -17and 2017-18– Annexure - 3
- 2.2 Syllabus and text books for Degree courses - B.Sc., M.Sc (Biological Sciences), B.S.(4), under semester scheme (Language under Part 1) - 2016 -17 and 2017-18– Annexure - 4
- 2.3 Syllabus and text books for Degree courses - B.Com., M.B.S. under semester scheme (Language under Part 1) – 2016 -17 and 2017-18– Annexure - 5
- 2.4 Syllabus and text books for Degree courses - B.B.A., B.H.M., M.T.A. under semester scheme (Language under Part 1) – 2016 -17 and 2017-18– Annexure - 6
- 2.5 Syllabus and text books for Degree course - B.C.A., B.Sc.(FAD) under semester scheme (Language under Part 1) – 2016 -17 and 2017-18– Annexure – 7

(Dr.B.GANESH)
Chairman, BOS in Hindi

SYLLABUS and TEXT BOOKS Under CBCS Scheme
Language Hindi

I Semester B.A., B.F.A., B.Music – Language under Part
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. **Collection of Prose: “Gadyalochan ”** **Edited by : Dr. Shekhar**
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. **Grammar:** Vakya shudh Kijiye, Ling and vachan
3. **Translation:** Terminology

Reference books:

1. Hindi Vyakaran Prabodh Avam Rachana – Dr. Vijaypal Singh
2. Vyavaharik Hindi Vyakaran Anuvad Tatha Rachana – Dr.H. Parameswaran
-

II Semester B.A., B.F.A., B.Music – Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. **Collection of Poems :** “Kavya Sushma” **Edited by : Dr. B. Ganesh**
Dr. M. Vimala
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. **Comprehension :** (Arth Grahan)
3. **Translation :** Terminology

Reference books:

1. Hindi Vyakaran Prabodh Avam Rachana – Dr. Vijaypal Singh
2. Vyavaharik Hindi Vyakaran Anuvad Tatha Rachana – Dr.H. Parameswaran
-

III Semester B.A., B.F.A., B.Music – Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. **1.Drama Drama:** Raksha Bhandhan by Shri Hari Krishna ‘Premi’
(Printed and published by Lok Bharathi Prakashan Allahabad)
2. **Sahitya Karon ka Parichay :** Sarveshwar Dayal Saxena, Kamaleshwar, Mamatha Kaliya, Harivanshrai Bachan
3. **Sankshepan**

Reference books:

1. Pramanik Alekhan Aur Tippan – Prof. Viraj
2. Prayojanmulak Hindi – Dr. Naresh Mishra
3. Prayojanmulak Hindi Ke Vividh Ayam- Dr. Maya Singh, Dr. Siddeshwar Kashyap
-

IV Semester B.A., B.F.A., B.Music – Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. **Upanyas :** “Pachpan Khambhe Lal Deewaren” - **by : Usha Priyamvada**
(Printed and published by Rajkamal Prakashan New Delhi)
2. **Film Review :** 3 Idiots- Dir – Rajkumar Hirani, Bhag Milka Bhag- Dir – Rakeysh Omprakash Mehar, Pakeezah – Dir – Kamal Amrohi , Manthan –Dir – Shyam Benegal,
3. **Translation:** Passage
-

DIVISION OF MARKS

I Semester B.A, BFA, B. Music – Language Under Part- I

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from prose	-	(2) out of (3)	2 x 7 = 14
3. 1 main question from prose	-	(1) out of (2)	1 x 16 = 16
4. 2 short notes from prose	-	(2) out of (3)	2 x 5 = 10
5. Grammar	-		10 x 1 = 10
6. Translation (Terminology)	-		10 x 1 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

II Semester B.A, BFA, B. Music – Language Under part – I

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from poetry	-	(2) out of (3)	2 x 7 = 14
3. 1 main question from poetry	-	(1) out of (2)	1 x 16 = 16
4. 2 short notes from poetry	-	(2) out of (3)	2 x 5 = 10
5. Comprehension	-		1 x 10 = 10
6. Translation (Terminology)	-		10 x 1 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

III Semester B.A, BFA, B. Music – Language Under part – I

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Drama	-	(2) out of (3)	2 x 7 = 14
3. 1 main question from Drama	-	(1) out of (2)	1 x 16 = 16
4. 2 short notes from Drama	-	(2) out of (3)	2 x 5 = 10
5. Sahitya Karo Ka Parichay	-	(1) out of (2)	1 x 10 = 10
6. Sankshapan	-		1 x 10 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

IV Semester B.A, BFA, B. Music – Language Under part – I

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Upanyas	-	(2) out of (3)	2 x 7 = 14
3. 1 main question from Upanyas	-	(1) out of (2)	1 x 16 = 16
4. 2 short notes from Upanyas	-	(2) out of (3)	2 x 5 = 10
5. Film Review	-	(1) out of (2)	1 x 10 = 10
6. Translation (Passage)	-		1 x 10 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

Question No 1 to 4 comes under part A for 50 marks and question no 5 and 6 comes under part B for 20 marks.

I Semester B.Sc., M.Sc (Biological Sciences), - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Collection of Prose: “Gadya Chayan” Edited by: Dr. B. Ganesh
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Comprehension: (Arth Grahan)
3. Translation: Scientific and Technical terminology

Reference books:

1. Hindi Vyakaran Prabodh Avam Rachana – Dr. Vijaypal Singh
2. Vyavaharik Hindi Vyakaran Anuvad Tatha Rachana – Dr. H. Parameswaran
-

II Semester B.Sc., M.Sc (Biological Sciences), B.S(4) - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Collection of Poems: “Kavya Shilp” Edited by : Dr. Babitha B.M
Dr. Shoba L
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Grammar: Vakya shudh Kijiye, Ling and vachan
3. Translation: Scientific and Technical terminology

Reference books:

1. Hindi Vyakaran Prabodh Avam Rachana – Dr. Vijaypal Singh
2. Vyavaharik Hindi Vyakaran Anuvad Tatha Rachana – Dr. H. Parameswaran
-

III Semester B.Sc., M.Sc (Biological Sciences), B.S(4) - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Drama: “Bina Deewaron Ke Ghar” by Mannu Bhandari
(Printed and published by Radha Krishna Prakashan New Delhi)
2. Essays: Sahitya Karon Ka Parichay - Gajanan Madav “Mukthibodh”, Vishnu Prabhakar,
Bhishm Sahani, Krishna Sobhathi
3. Sankshapan

Reference books:

1. Pramanik Alekhan Aur Tippan – Prof. Viraj 2. Prayojanmulak Hindi – Dr. Naresh Mishra
2. Prayojanmulak Hindi Ke Vividh Ayam- Dr. Maya Singh, Dr. Siddeshwar Kashyap
3. Hindi Ka Anuprayukt Swarup- Dr. Ramprakash, Dr. Dinesh Kumar Gupt
-

IV Semester B.Sc., M.Sc (Biological Sciences), B.S(4) - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Upanyas : “Sookhta Hua Talab” by Dr. Ramdarash Mishra
(Printed and published by Vani Prakashan New Delhi)
2. Film Review : Chak de India- Dir – Shimit Amin , Paa – Dir – R Balki, Ankur – Dir – Shyam Benegal,
Sparsh – Dir – Sai Paranjpye
3. Translation : Passage
-

DIVISION OF MARKS

I Semester B.Sc, M.Sc, (Biological Science) – Language Under Part- I

1. Objective type Questions	-	10 x 1 = 10
2. 2 Annotations from prose	- (2) out of (3)	- 2 x 7 = 14
3. 1 main question from prose	- (1) out of (2)	- 1 x 16 = 16
4. 2 short notes from prose	- (2) out of (3)	- 2 x 5 = 10
5. Comprehension	-	- 1 x 10 = 10
6. Translation (Terminology)	-	- 10 x 1 = 10
		Theory Total = 70
Internal Assessment Marks		= 30
Teaching hours per week – 4	CREDITS- 2	<u>Total = 100</u>

II Semester B.Sc, M.Sc, (Biological Science) – Language Under Part- I

1. Objective type Questions	-	10 x 1 = 10
2. 2 Annotations from Poetry	- (2) out of (3)	- 2 x 7 = 14
3. 1 main question from Poetry	- (1) out of (2)	- 1 x 16 = 16
4. 2 short notes from Poetry	- (2) out of (3)	- 2 x 5 = 10
5. Grammar	-	- 10 x 1 = 10
6. Translation (Terminology)	-	- 10 x 1 = 10
		Theory Total = 70
Internal Assessment Marks		= 30
Teaching hours per week – 4	CREDITS- 2	<u>Total = 100</u>

III Semester B.Sc, Music, Biological Science – Language Under Part- I

1. Objective type Questions	-	10 x 1 = 10
2. 2 Annotations from Drama	- (2) out of (3)	- 2 x 7 = 14
3. 1 main question from Drama	- (1) out of (2)	- 1 x 16 = 16
4. 2 short notes from Drama	- (2) out of (3)	- 2 x 5 = 10
5. Sahityakar ka parichay	- (1) out of (2)	- 1 x 10 = 10
6. Sankshepan	-	- 1 x 10 = 10
		Theory Total = 70
Internal Assessment Marks		= 30
Teaching hours per week – 4	CREDITS- 2	<u>Total = 100</u>

IV Semester B.Sc, Music, Biological Science – Language Under Part- I

1. Objective type Questions	-	10 x 1 = 10
2. 2 Annotations from Upanyas	- (2) out of (3)	- 2 x 7 = 14
3. 1 main question from Upanyas	- (1) out of (2)	- 1 x 16 = 16
4. 2 short notes from Upanyas	- (2) out of (3)	- 2 x 5 = 10
5. Film Review	- (1) out of (2)	- 1 x 10 = 10
6. Translation (Passage)	-	- 1 x 10 = 10
		Theory Total = 70
Internal Assessment Marks		= 30
Teaching hours per week – 4	CREDITS- 2	<u>Total = 100</u>

Question No. 1 to 4 comes under part A for 50 marks and question no. 5 and 6 comes under part B for 20 marks.

I Semester B.Com., M.B.S. - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Collection of Prose: “Gadya Manasvini” Edited by : Dr.M.Vimala
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Letter Writing: Vanijya Patra - Avedan, Puch-tach, Vyaparik Prastav, Adesh, Sandarbh,
3. Translation: Terminology

Reference Books :

1. Vyavaharik Hindi- Dr. Dilip Singhvi
 2. Abhinav Vyavaharik Hindi – Sri. Paramanad Gupta
 3. Vyavaharik Hindi- Dr. Mahendra Mittal
 4. Vanijya Hindi- Sri. A. V. Narthi
-

II Semester B.Com., M.B.S. - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Collection of Poems: “Kavya Saritha ” Edited by Dr. Thyagaraja R
Prof. C. Madana Mohana Reddy
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Letter Writing: Vanijya Patra - Bhugtan, Beema, Bank, Shikayati Patra, Agency,
3. Translation: Terminology

Reference Books :

1. Vyavaharik Hindi- Dr. Dilip Singhvi
 2. Abhinav Vyavaharik Hindi – Sri. Paramanad Gupta
 3. Vyavaharik Hindi- Dr. Mahendra Mittal
 4. Vanijya Hindi- Sri. A. V. Narthi
-

III Semester B.Com., M.B.S. - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Drama : “Alakh Azadi Ki” by Shushil Kumar Singh
(Printed and published by Vani Prakashan New Delhi)
2. Sarkari Patra : Samanya Sarkari Patra, Ardha Sarkari Patra, Karyalay Adesh, Adhisuchana,
Paripatr, Anusmarak.
3. Sankshapan

Reference books:

1. Pramanik Alekhan Aur Tippan – Prof. Viraj
 2. Prayojanmulak Hindi – Dr. Naresh Mishra
 3. Prayojanmulak Hindi Ke Vividh Ayam- Dr. Maya Singh, Dr. Siddeshwar Kashyap
 4. Vyavaharik Hindi- Dr. Dilip Singhvi
 5. Vyavaharik Hindi- Dr. Mahendra Mittal
-

IV Semester B.Com., M.B.S. - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks: 70+30

1. Upanyas : “ Sapnon Ki Home Delivery ” - by Mamta Kalia
(Printed and published by Loka Bharathi Prakashan Allahabad)
2. Film Review : Piku – Dir – Shoojit Sircar, Rang De Basanti – Dir – Rakeysh Omprakash Mehra,
Katha – Dir- Sai Paranjpye, Nishanth – Dir – Shyam Benegal .
3. Translation: Passage
-

DIVISION OF MARKS

I Semester B.Com. - Language under Part 1

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Prose	-	(2) out of (4)	2 x 6 = 12
3. 1 Main question from Prose	-	(1) out of (2)	1 x 12 = 12
4. 1 Short notes from Prose	-	(1) out of (2)	1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	2 x 10 = 20
6. Translation (Terminology)	-		10 x 1 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

II Semester B.Com. - Language under Part 1

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Poetry	-	(2) out of (4)	2 x 6 = 12
3. 1 Main question from Poetry	-	(1) out of (2)	1 x 12 = 12
4. 1 Short notes from Poetry	-	(1) out of (2)	1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	2 x 10 = 20
6. Translation (Terminology)	-		10 x 1 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

III Semester B.Com. - Language under Part 1

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Drama	-	(2) out of (4)	2 x 6 = 12
3. 1 Main question from Drama	-	(1) out of (2)	1 x 12 = 12
4. 1 Short notes from Drama	-	(1) out of (2)	1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	2 x 10 = 20
6. Sankeshpan	-		1 x 10 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

IV Semester B.Com. - Language under Part 1

1. Objective type Questions	-		10 x 1 = 10
2. 2 Annotations from Upanyas	-	(2) out of (4)	2 x 8 = 16
3. 1 Main question from Upanyas	-	(1) out of (2)	1 x 16 = 16
4. 1 Short notes from Upanyas	-	(1) out of (2)	1 x 8 = 08
5. Film Review	-	(1) out of (2)	1 x 10 = 10
6. Translation (Passage)	-		1 x 10 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		<u>Total = 100</u>

Question no. 1 to 4 comes under part A for 40 marks and question no. 5 and 6 comes under part B for 30 marks for all the semesters.

I Semester B.B.A., B.H.M., M.T.A.- Language under Part 1
for the years 2016-17 and 2017-18

- Texts:** **Max. Marks: 70+30**
1. Collection of Prose: “Gadya Shree” Edited by Prof. C Madana Mohana Reddy
Dr. Asha D Shirolikar
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Letter Writing: **Vanijya Patra** - Avedan, Puch-tach, Vyaparik Prastav, Adesh, Sandarbh,
3. Translation: Terminology

Reference Books :

1. Vyavaharik Hindi- Dr. Dilip Singhvi
2. Abhinav Vyavaharik Hindi – Sri. Paramanad Gupta
3. Vyavaharik Hindi- Dr. Mahendra Mittal
4. Vanijya Hindi- Sri. A. V. Narthi

II Semester B.B.A., B.H.M., M.T.A.- Language under Part 1
for the years 2016-17 and 2017-18

- Texts:** **Max. Marks: 70+30**
1. Collection of Poems: “Kavyanjali ” Edited by Dr. Thyagaraja R
Dr. Shobha L
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. Letter Writing: **Vanijya Patra** - Bhugtan, Beema, Bank, Shikayati Patr, Agency,
3. Translation: Terminology

Reference Books :

1. Vyavaharik Hindi- Dr. Dilip Singhvi
2. Abhinav Vyavaharik Hindi – Sri. Paramanad Gupta
3. Vyavaharik Hindi- Dr. Mahendra Mittal
4. Vanijya Hindi- Sri. A. V. Narthi

III Semester B.B.A., B.H.M., M.T.A. - Language under Part 1
for the years 2016-17 and 2017-18

- Texts:** **Max. Marks: 70+ 30**
1. Drama : “Lahron Ke Rajhans” by Mohan Rakesh
(Printed and published by Rajkamal Prakashan New Delhi)
2. Sarkari Patra : Samanya Sarkari Patra, Ardha Sarkari Patra, Karyalay Adesh, Adhisuchana, Paripatra, Anusmarak.
3. Sankshepan

Reference books:

1. Pramanik Alekhan Aur Tippan – Prof. Viraj
2. Prayojanmulak Hindi – Dr. Naresh Mishra
3. Prayojanmulak Hindi Ke Vividh Ayam- Dr. Maya Singh, Dr. Siddeshwar Kashyap
4. Vyavaharik Hindi- Dr. Mahendra Mittal
5. Vyavaharik Hindi- Dr. Dilip Singhvi
6. Abhinav Vyavaharik Hindi – Sri. Paramanad Gupta

IV Semester B.B.A., B.H.M., M.T.A. - Language under Part 1
for the years 2016-17 and 2017-18

- Texts:** **Max. Marks: 70+30**
1. Upanyas : “Sune Chokhte” - by : Dr. Sarveshwar Dayal Saxena
(Printed and published by Vani Prakashan, New Delhi)
2. Film Review : Taare Zameen Par – Dir – Amir Khan , Slum Dog Millionaire – Dir – Danny Boyle ,
Shatranj Ke Khiladi – Dir – Satyajeet Rai, Mother India – Dir – Mehboob Khan ,
3. Translation: Passage
-

DIVISION OF MARKS

I Semester B.B.A., B.H.M., M.T.A. - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Prose	-	(2) out of (4)	- 2 x 6 = 12
3. 1 Main question from Prose	-	(1) out of (2)	- 1 x 12 = 12
4. 1 Short notes from Prose	-	(1) out of (2)	- 1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	- 2 x 10 = 20
6. Translation (Terminology)			- 10 x 1 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		Total = 100

II Semester B.B.A., B.H.M., M.T.A. - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Poetry	-	(2) out of (4)	- 2 x 6 = 12
3. 1 Main question from Poetry	-	(1) out of (2)	- 1 x 12 = 12
4. 1 Short notes from Poetry	-	(1) out of (2)	- 1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	- 2 x 10 = 20
6. Translation (Terminology)			- 10 x 1 = 10
			Theory Total= 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		Total = 100

III Semester B.B.A., B.H.M., M.T.A. - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Drama	-	(2) out of (4)	- 2 x 6 = 12
3. 1 Main question from Drama	-	(1) out of (2)	- 1 x 12 = 12
4. 1 Short notes from Drama	-	(1) out of (2)	- 1 x 6 = 06
5. 2 Letter writing	-	(2) out of (3)	- 2 x 10 = 20
6. Sankeshpan			- 1 x 10 = 10
			Theory Total = 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		Total = 100

IV Semester B.B.A., B.H.M., M.T.A. - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Upanyas	-	(2) out of (4)	- 2 x 8 = 16
3. 1 Main question from Upanyas	-	(1) out of (2)	- 1 x 16 = 16
4. 1 Short notes from Upanyas	-	(1) out of (2)	- 1 x 8 = 08
5. Film Review	-	(1) out of (2)	- 1 x 10 = 10
6. Translation (Passage)			- 1 x 10 = 10
			Theory Total= 70
Internal Assessment Marks			= 30
Teaching hours per week – 4	CREDITS- 2		Total = 100

Question no. 1 to 4 comes under part A for 40 marks and question no. 5 and 6 comes under part B for 30 marks for all the semesters.

I Semester B.C.A.,B.Sc.(FAD)- Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks:70+30

1. **Collection of Prose:** “Gadya Phulvaari” Edited by Dr. Asha D Shirolikar
Prof. Mohamed Anzarul Haq
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. **Biography :** Jamsheed Ji Tata, Homi Jahangir Bhaba, Prof. A.P. J Abdhul Kalam, Sabeer Bhatia,
3. **Translation:** Terminology
-

II Semester B.C. A. ,B.Sc.(FAD) - Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks:70+30

1. **Collection of Poems:** “Kavya Sindhu ” Edited by Dr.Babitha B.M
Prof. Mohamed Anzarul Haq
(Printed and published by Prasaranga, Bangalore University, Bangalore)
2. **Essays:** Bharath Me Parmanu Parikshan, Adhunik Sanchar Kranti, (email, Internet,
www.com “website”), Adhunik Jan Parivahan (Metro), Aaj Ka Samaj Aur Naitikta
3. **Translation:** Terminology
-

III Semester B.C.A ,B.Sc.(FAD)- Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks:70+30

2. **Drama:** ‘Yuge Yuge Kranti Edited by : Vishnu Prabhakar
(Printed and published by Rajpal and sons, New Delhi)

3. **Comprehension (Arth Grahan)**
4. **Sankshepan**

Reference books:

1. Pramanik Alekhan Aur Tippan – Prof.Viraj Prayojanmulak Hindi – Dr.Naresh Mishra
 2. Prayojanmulak Hindi Ke Vividh Ayam- Dr.Maya Singh, Dr.Siddeshwar Kashyap
 3. Hindi Ka Anuprayukt Swarup- Dr. Ramprakash, Dr.Dinesh Kumar Gupt
 4. Prayojanmulak Hindi – Dr.Madhav Sontakke
-

IV Semester B.C.A. ,B.Sc.(FAD)- Language under Part 1
for the years 2016-17 and 2017-18

Texts:

Max. Marks:70+30

1. **Upanyas** “Akash Ki Chhat .” by Dr. Ramdarasha Mishra
(Printed and published by Vani Prakashan, New Delhi)
1. **Film Review :** Burfi – Dir – Anurag Basu, Black – Dir – Sanjay Leela Bhansali, Disha – Dir – Sai Paranjpye, Sholay – Dir – Ramesh Sippy.
2. **Translation:** Passage
-

DIVISION OF MARKS

I Semester B.C.A. ,B.Sc.(FAD) - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations form prose	-	(2) out of (3)	- 2 x 7 = 14
3. 1 Main question form prose	-	(1) out of (2)	- 1 x 16 = 16
4. 1 Short notes form prose	-	(2) out of (3)	- 2 x 5 = 10
5. Biography	-	(1) out of (2)	- 1 x 10 = 10
6. Translation (Terminology)			- 10 x 1 = 10

Theory Total= 70

Internal Assessment Marks = 30

Teaching hours per week – 4 CREDITS- 2 **Total = 100**

II Semester B.C.A. ,B.Sc.(FAD) - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from poetry	-	(2) out of (3)	- 2 x 7 = 14
3. 1 Main question from poetry	-	(1) out of (2)	- 1 x 16 = 16
4. 1 Short notes from poetry	-	(2) out of (3)	- 2 x 5 = 10
5. Essay	-	(1) out of (2)	- 1 x 10 = 10
6. Translation (Terminology)			- 10 x 1 = 10

Theory Total = 70

Internal Assessment Marks = 30

Teaching hours per week – 4 CREDITS- 2 **Total = 100**

III Semester B.C.A. ,B.Sc.(FAD) - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Drama	-	(2) out of (3)	- 2 x 7 = 14
3. 1 Main question from Drama	-	(1) out of (2)	- 1 x 16 = 16
4. 1 Short notes from Drama	-	(2) out of (3)	- 2 x 5 = 10
5. Comprehension			- 1 x 10 = 10
6. Sankshepan			- 1 x 10 = 10

Theory Total = 70

Internal Assessment Marks = 30

Teaching hours per week – 4 CREDITS- 2 **Total = 100**

IV Semester B.C.A. ,B.Sc.(FAD) - Language under Part 1

1. Objective type Questions		-	10 x 1 = 10
2. 2 Annotations from Upanyas	-	(2) out of (4)	- 2 x 8 = 16
3. 1 Main question from Upanyas	-	(1) out of (2)	- 1 x 16 = 16
4. 1 Short notes from Upanyas	-	(1) out of (2)	- 1 x 8 = 08
5. Film Review	-	(1) out of (2)	- 1 x 10 = 10
6. Translation (Passage)			- 1 x 10 = 10

Theory Total= 70

Internal Assessment Marks = 30

Teaching hours per week – 4 CREDITS- 2 **Total = 100**

Question no. 1 to 4 comes under part A for 40 marks and question no. 5 and 6 comes under part B for 30 marks for all the semesters.

Optional BA Hindi :

Division of marks Similar to 2014-15 for all the semesters (I, II, II, IV, V and VI)

(Refer page 16 and 17 of Syllabus)

Semester B.A. Optional Hindi- Paper- I

1. **Kavya Shastra** –To be studied - Upanyas, Kahani, Upanyas aur Kahani Mein Antar, Nibandh Aur Uske Prakar, Reportaj, Jeevani, Samsmaran, Sakshatkar - Ke tatva.
2. **Collection of one Act play : “Kalapurna Ekanki”** - Edited by : Dr.V.P.Singh
Dr.Amita Singh
(Printed and published by Lokbharati Prakashan, Allahabad)
3. **Alankar** - To be Studied - Anupras, Pradeep, Yamak, Utpreksha, Atishayokti, Slesh.

Reference Books:

1. Kavya Ke Roop - Gulab Roy
2. Kavya Pradeep - Dr.Krishnadatt Avasthi
2. Kavya Shastra - Dr.Yatindranath Tiwari , Dr. Shivanandan Prasad

II Semester B.A. Optional Hindi Paper- II

1. **Kavya Shastra** – To be Studied- Natak, Ekanki, Natak Aur Ekanki Mein Antar, Rekhachitra, Maha Kavya, Khand Kavya, Muktak Kavya, Geeti Kavya, Ekartha Kavya- Ke tatva
2. **Collection of short stories: “Shreshta Kahaniyan”** Edited by Dr.V.P.Singh
(Printed and published by Jayabharati Prakashan, Allahabad)
3. **Chand** – To be studied – Doha, Sortha, Rola, Choupayee, Kavitta, Dikpal

Reference Books :

1. Kavya Ke Roop - Gulab Roy
2. Kavya Pradeep - Dr.Krishnadatt Avasthi
2. Kavya Shastra - Dr.Yatindranath Tiwari, Dr Shivananda Prasad

III Semester B.A Optional Hindi Paper- III

1. **Hindi Sahitya Ka Itihas** - To be studied - **Adikaal**
2. **Khanda Kavya** - “**Draupadi**” – Written by Narendra Sharma

Reference Books:

1. Hindi Sahitya Ka Itihas - Dr. Gulab Roy
2. Hindi Sahitya Ka Itihas - Acharya Ramachandra Shukla
3. Hindi Sahitya Ka Itihas - Dr. Madhu Dhawan

IV Semester B.A. Optional Hindi Paper-IV

1. **Hindi Sahitya Ka Itihas**- To be Studied - **Bhakti Kaal**
2. **Upanyas** - “**Thake Paun**” – Written by Bhagavaticharan Varma
(Printed and published by Rajpal & Sons, New Delhi)

Reference Books :

1. Hindi Sahitya Ka Itihas - Acharya Ramachandra Shskla
2. Hindi Sahitya Ka Itihas - Dr. Gulab Roy
2. Hindi Sahitya Ka Itihas - Dr. Madhu Dhawan

V Semester B.A. Optional Hindi Paper- V

1. **Hindi Sahitya Ka Itihas** - To be Studied - **Reetikaal**
2. **Nibandh** – Paryavarana Pradushan : Samasyayen Evam Samadhan, Vijnan Aur Sahitya Ka Antassambandh, Sahityik Kshetra Mein Mahilaon Ka Yogdan, Rashtrabhasha, Rajbhasha, Sampark Bhasha – Hindi, Berozgari Ki Samasya, Adhunik Shiksha Pranali
3. **Poetics** - **Shabd Shakti** – Abhida, Lakshana, Vyanjana
Chand – Kundaliya, Geetika, Chappay, Tomar, Harigeetika, Ullala
Alankar – Rupak, Upama, Sandeh, Drishtanth, Vakrokti, Virodhabhas

Reference Books :

1. Kavya Ke Roop - Gulab Roy
2. Kavya Shastra - Dr.Krishnadatt Avasthi
Dr.Yatindranath Tiwari
Dr. Shivanandan Prasad
3. Hindi Sahitya Ka Itihas- Acharya Ramachandra Shskla
4. Hindi Sahitya Ka Itihas - Dr. Gulab Roy
5. Hindi Sahitya Ka Itihas - Dr. Madhu Dhawan

V Semester B.A. Optional Hindi Paper – VI

1. **Bhasha Vijnan** – To be studied – Bhasha ki Utpatti, Bhasha Tatha Uske Vividh Roop, Bhasha Vijnan Aur Uski Shakhayen, Bhasha Vijnan Ka Anya Vijnanon Se Sambandh, Bhasha Ki Parivartansheelata, Sansar Ki Bhashaon Ka Vargeekaran
2. **Bhakti Kavya**- To be Studied – **Sundar Khand** from **Ramcharitamanas** written by Tulasidas

Reference Books :

1. Bhasha Vijnan – Bholanath Tiwari
 2. Bhasha Vijnan- Dr.Dheerendra Varma
-

VI Semester B.A.Optional Hindi Paper – VII

1. **Hindi Sahitya Ka Itihas** – To be studied – **Adhunika Kaal**
2. **Yathartvad Aur Usake Prakar, Adarshvad, Samajvad and Astitvavad**
3. **Poetics:** Ras – Paribhasha, Ras Nishpatti, Nav Ras
4. **Vyakaran :** Ling Parivartan Ke Niyam, Bahuvachan Banane Ke Niyam, Ne Niyam, Samas

Reference Books :

1. Kavya Ke Roop - Gulab Roy
 2. Kavya Shastra - Dr.Krishnadatt Avasthi
Dr.Yatindranath Tiwari
 3. Hindi Sahitya Ka Itihas- Acharya Ramachandra Shskla
 4. Hindi Sahitya Ka Itihas - Dr. Gulab Roy
 5. Hindi Sahitya Ka Itihas - Dr. Madhu Dhawan
 6. Hindi Nayi Kahani Ka Samaaj Shastriya Adhyayan ; Dr. Maheshchandra ‘Diwakar’
 7. Bisawi Shati Ke Hindi Kahani Ka Samaj – Manovignaiik Adhyayan ; Dr. Maheshchandra ‘Diwakar’
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VI Semester B.A Optional Hindi Paper - VIII

1. **Bhasha Vijnan** - To be Studied – Hindi Bhasha Aur Uski Boliyan, Khadiboli(Hindi, Urdu, Hindustani), Hindi Dhvaniyan, Hindi Ka Shabd Samuh, Hindi : Udbhav Aur Vikas, Nagari Lipi
2. **Kavya** – Surdas ka **Bhramargeet Sar** – Edited by Ramachandra Shukla

Reference Books :

1. Bhasha Vijnan – Bholanath Tiwari
 2. Bhasha Vijnan- Dr.Dheerendra Varma
-

DIVISION OF MARKS

I Semester B.A. Optional Hindi – Paper- I

1. Kavya Shastra	-	Main Question	-	(1) out of (2)	-	1 x 16 = 16
2. Kavya Shastra	-	Short Notes	-	(2) out of (3)	-	2 x 8 = 16
3. One Act Ploy	-	Annotations	-	(3) out of (5)	-	3 x 8 = 24
4. One Act Ploy	-	Main Question	-	(1) out of (2)	-	1 x 16 = 16
5. One Act Ploy	-	Short Notes	-	(2) out of (3)	-	2 x 8 = 16
6. Alankar	-		-	(2) out of (3)	-	2 x 6 = 12
Internal Assessment Marks						<u>= 50</u>
						<u>Total = 150</u>

II Semester B.A. Optional Hindi – Paper- II

1. Kavya Shastra	-	Main Question	-	(2) out of (3)	-	2 x 16 = 32
2. Kavya Shastra	-	Short Notes	-	(2) out of (3)	-	2 x 8 = 16
3. Kahani	-	Main Question	-	(1) out of (2)	-	1 x 16 = 16
4. Kahani	-	Short Notes	-	(3) out of (5)	-	3 x 8 = 24
5. Chand	-		-	(2) out of (3)	-	2 x 6 = 12
Internal Assessment Marks						<u>= 50</u>
						<u>Total = 150</u>

III Semester B.A. Optional Hindi – Paper- III

1. Hindi Sahitya Ka Itihas	-	Main Question	-	(2) out of (3)	-	2 x 16 = 32
2. Hindi Sahitya Ka Itihas	-	Short Notes	-	(1) out of (2)	-	1 x 8 = 8
3. Khanda Kavya	-	Annotations	-	(3) out of (5)	-	3 x 8 = 24
4. Khanda Kavya	-	Main Question	-	(1) out of (2)	-	1 x 16 = 16
5. Khanda Kavya	-	Short Notes	-	(2) out of (3)	-	2 x 10 = 20
Internal Assessment Marks						<u>= 50</u>
						<u>Total = 150</u>

IV Semester B.A. Optional Hindi – Paper- IV

1. Hindi Sahitya Ka Itihas	-	Main Question	-	(2) out of (3)	-	2 x 16 = 32
2. Hindi Sahitya Ka Itihas	-	Short Notes	-	(2) out of (3)	-	2 x 8 = 16
3. Upanyas	-	Main Question	-	(2) out of (3)	-	2 x 16 = 32
4. Upanyas	-	Short Notes	-	(2) out of (3)	-	2 x 10 = 20
Internal Assessment Marks						<u>= 50</u>
						<u>Total = 150</u>

V Semester B.A. Optional Hindi – Paper- V

1. Hindi Sahitya Ka Itihas	-	Main Question	-	(2) out of (3)	-	2 x 16 = 32
2. Hindi Sahitya Ka Itihas	-	Short Notes	-	(2) out of (3)	-	2 x 8 = 16
3. Essay	-		-	(1) out of (2)	-	1 x 10 = 10
4. Shabd Shakti	-		-	(2) out of (3)	-	1 x 10 = 10
5. Chand	-		-	(1) out of (2)	-	2 x 8 = 16
6. Alankar	-		-	(2) out of (3)	-	2 x 8 = 16
Internal Assessment Marks						<u>= 50</u>
						<u>Total = 150</u>

V Semester B.A. Optional Hindi – Paper- VI

1. Bhasha Vijnan	- Main Question	- (2) out of (4)	- 2 x 16 = 32
2. Bhasha Vijnan	- Short Notes	- (2) out of (3)	- 2 x 8 = 16
3. Bhakti Kavya	- Main Question	- (1) out of (2)	- 1 x 16 = 16
4. Bhakti Kavya	- Short Notes	- (2) out of (3)	- 2 x 10 = 20
5. Bhakti Kavya	- Annotations	- (2) out of (3)	- 2 x 8 = 16
Internal Assessment Marks			<u> = 50</u>
			<u>Total = 150</u>

VI Semester B.A. Optional Hindi – Paper- VII

1. Hindi Sahitya Ka Itihas	- Main Question	- (2) out of (3)	- 2 x 16 = 32
2. Hindi Sahitya Ka Itihas	- Short Notes	- (2) out of (3)	- 2 x 10 = 20
3. Essay	- Question on Wad	- (1) out of (2)	- 1 x 10 = 10
4. Ras		- (2) out of (3)	- 2 x 10 = 20
5. Vyakaran		- (2) out of (3)	- 2 x 9 = 18
Internal Assessment Marks			<u> = 50</u>
			<u>Total = 150</u>

VI Semester B.A. Optional Hindi – Paper- VIII

1. Bhasha Vijnan	- Main Question	- (2) out of (4)	- 2 x 16 = 32
2. Bhasha Vijnan	- Short Notes	- (2) out of (3)	- 2 x 9 = 18
3. Bhakti Kavya	- Annotations	- (3) out of (3)	- 3 x 8 = 24
4. Bhakti Kavya	- Main Question	- (1) out of (2)	- 1 x 16 = 16
5. Bhakti Kavya	- Short Notes	- (1) out of (2)	- 1 x 10 = 10
Internal Assessment Marks			<u> = 50</u>
			<u>Total = 150</u>

(Dr.B.GANESH)
Chairman, BOS in Hindi

Annexure -II
Bangalore University
P.G. Department of Studies in Sanskrit
Titles & Abstracts of the papers (U.G. Syllabus) & Text-Books
under CBCS Scheme
Language Sanskrit

Syllabus

I Semester : B.A/B.Sc/B.sc FAD/IBS

Language Sanskrit Paper-1- Poetry

1. Select portion of a Mahakavya / Khandakavya
2. Textual Grammar
3. Comprehension
4. Internal Assessment

II Semester B.A/B.Sc/B.sc FAD/IBS

Language Sanskrit Paper-2 - Prose

1. Select portion of a Gadyakavya / Popular Tales
2. Textual Grammar
3. Translation from Sanskrit to Kannada / English
4. Internal Assessment

III Semester B.A/B.Sc/B.sc FAD/IBS

Language Sanskrit Paper -3- Champu

1. Select portion of a Champu
2. Textual Grammar
3. Translation from Kannada / English to Sanskrit
4. Internal Assessment

IV Semester B.A/B.Sc/B.sc FAD/IBS

Language Sanskrit Paper -4 - Drama

1. Select portion of a drama or a short drama
2. History of classical Sanskrit Literature
3. Internal Assessment

Text-Books

I Semester BA/ B.Sc/ B.Sc. FAD / IBS

Language Sanskrit Paper-I

Max.marks-100

- 1) Title of the Paper –Poetry, Grammar and Comprehension
- 2) Title of the Text – Kumarasambhavam -II Canto 70
- 3) Textual Grammar -1. Identification of gender, case and number of the nouns
2. Identification of tense, person and number of the verbs
- 4) Comprehension in Sanskrit
- 5) Internal Assessment 30
- 6) Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Grammar (to be answered in Sanskrit only)
 - a) Identification of Gender, case and number of the Nouns (5 of 8) 05
 - b) Identification of tense, person and number of the verbs (5 of 8) 05
6. Comprehension in Sanskrit 10

Books for study & Reference:

1. Kumarasambhava of Kalidasa-2nd canto
Ed. Prof. R.M. Ambli, Prasaranaga, BUB
2. Kumarasambhavam of Kalidasa-M.R. Kale
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature-S.Rangachar
5. Samskrita Sahitya Sameekshe (Kannada),
Dr.M.Sivakumaraswamy

II Semester BA/BSc / BSc FAD/IBS
Language Sanskrit Paper- II **Max.marks-100**

1. Title of the Paper--- Prose Grammar and Translation
2. Title of the Text --- Bhoja Prabhandham of Ballala Sena 70
3. Textual Grammar
 1. Analysis and naming of Samasas
 2. Change of voice
4. Translation from Sanskrit to Kannada / English
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation of Prose Passage (1 of 2) 1x12=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2x2^{1/2}=05
5. Grammar (To be answered in Sanskrit only)
 - a) Analysis and naming of samasas (5 of 8) 1x5=05
 - b) Change of voice (2 of 3) 2x2^{1/2}=05
6. Translation of Sanskrit passage into Kannada /English 1x5=5

Books for study & Reference :

1. Bhoja Prabandha –Ed. Dr.M.G. Namitha, Prasaranga, BUB
2. Higher Sanskrit Grammar-M.R. Kale
3. History of Sanskrit Literature –S.Rangachar
4. Samskrita Sahitya Sameekshe (Kannada)
Dr. M.Sivakumaraswamy

III Semester B.A/ B.Sc/ B.Sc FAD/IBS
Language Sanskrit Paper- III **Max.marks-100**

1. Title of the Paper--- Champu, Grammar and Translation.
2. Title of the Text --- Champu Ramayana of Bhoja (Sundara Kadam) upto 50 shlokas 70
3. Textual Grammar
 1. Correction of errors
 2. Construction of sentences
4. Translation of Kannada / English passage to Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation of slokas (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2x2^{1/2}=05
6. Grammar (To be answered in Sanskrit only)
 - a) Correction of errors (5 of 8) 5x1=05
 - b) Construction of sentences (5 of 8) 5x1=05
7. Translation of Kannada /English Passage into Sanskrit 1x5=5

Books for study & Reference :

1. Champu Ramayanam of Bhoja(Sundarkadam)-
Ed.Dr.Manjunatha Bhatta, Prasaranga, BUB
2. Champu Ramayanam of Bhoja, Chowkamba
publications,Varanasi
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),-
Dr.M.Sivakumaraswamy

IV Semester B.A/ B.Sc/ B.Sc FAD/IBS
Language Sanskrit Paper- IV **Max.marks-100**

- | | |
|--|-----------|
| 1. Title of the Paper--- Drama and Dramatic Literature | |
| 2. Title of the Text --- KarnaBharam of Bhasa | 70 |
| 3. Dramatic Literature(Topics to be covered-Origin and development of Sanskrit drama, characteristics of Sanskrit drama,dramas of Bhasa, Kalidasa, Shudraka,Sriharsha) | |
| 4. Internal assessment | 30 |
| 5. Teaching hours per week -4 | CREDITS-2 |

Scheme of Examination

- | | | |
|--|----------|---------|
| 1. Multiple choice questions | | 1x10=10 |
| 2. Essay type questions | (1 of 2) | 1x10=10 |
| 3. Short notes | (2 of 4) | 2x5=10 |
| 4. Translation and explanation of slokas | (2 of 4) | 2x6=12 |
| 5. Reference to context | (2 of 4) | 2x4=08 |
| 6. Dramatic Literature | | |
| a) Essay type question | (1 of 2) | 1x10=10 |
| b) Short notes | (2 of 4) | 2x5=10 |

Books for study & Reference :

1. Karnabharam of Bhasa -Ed.Dr.Manjunatha Bhatta, Prasaranga, BUB
2. Sanskrit Drama- A.B.Keith
3. History of Sanskrit Literature –M.Winternitz
4. Samskrita Sahitya Sameekshe (Kannada),.- Dr.M.Sivakumaraswamy

Syllabus

I Semester B.Com. / LLB.

Language Sanskrit Paper-1- Poetry

1. Select portion of a Mahakavya / Khandakavya
2. Textual Grammar
3. Comprehension
4. Internal Assessment

II Semester B.Com. / LLB

Language Sanskrit Paper-2 - Prose

1. Select portion of a Gadyakavya / Popular Tales
2. Textual Grammar
3. Translation from Sanskrit to Kannada / English
4. Internal Assessment

III Semester B.Com. / LLB

Language Sanskrit Paper -3- Champu

1. Select portion of a Champu
2. Textual Grammar
3. Translation from Kannada / English to Sanskrit
4. Internal Assessment

IV Semester B.Com. / LLB

Language Sanskrit Paper -4 – Drama

1. Select portion of a drama or a short drama
2. Select portions from Pracheenavanijyacharitam
3. Internal Assessment

Text-Books

I Semester B.Com/LLB

Language Sanskrit Paper- I

Max.marks-100

1. Title of the Paper--- Poetry, Grammar and Comprehension
2. Title of the Text --- Yakshaprashna Sangraha 70
3. Textual Grammar -1. Identification of gender, case and number of the nouns
2. Identification of tense, person and number of the verbs
4. Comprehension in Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Grammar (to be answered in Sanskrit only)
 - a) Identification of gender, case and number of the nouns (5 of 8) 05
 - b) Identification of tense, person and number of the verbs (5 of 8) 05
6. Comprehension in Sanskrit 10

Books for study & Reference:

1. Yaksha Prashna Sangraha-Ed. Dr.C.Shivakumaraswamy, Prasaranga, BUB
2. Yaksha Prashna- Ed. T.K.Ramachandra Aiyar
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –S.Rangachar
5. History of Sanskrit Literature-M. Winternitz
6. Samskrita Sahitya Sameekshe (Kannada),- Dr.M.Sivakumaraswamy

II Semester B.Com / LLB

Language Sanskrit Paper- II

Max.marks-100

1. Title of the Paper--- Prose, Grammar and Translation
2. Title of the Text --- Harshacharitam of Bana
(Uchhvasa-III upto Sthanveesvaravarnanam) 70
3. Textual Grammar
4. Analysis and naming of samasas
1. Change of voice
2. Translation from Sanskrit to Kannada / English
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation of Prose Passage (1 of 2) 1x12=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2 x2^{1/2} =05
6. Grammar (To be answered in Sanskrit only)
a) Analysis and naming of samasas (5 of 8) 1x5=05
b) Change of voice (2 of 3) 2 x2^{1/2} =05
7. Translation of Sanskrit Passage into
Kannada /English 1x5=5

Books for study & Reference:

1. Harashacharitam of Bana-Ed. Dr.C.Shivakumara swamy
Prasaranga, BUB
2. Harashacharitam of Bana: M.R. Kale
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

III Semester B.Com/ LLB
Language Sanskrit Paper- III **Max.marks-100**

1. Title of the Paper--- Champu, Grammar and Translation.
2. Title of the Text --- Champu Ramayana of Bhoja (Aranya-
kandam) upto 50 shlokas 70
3. Textual Grammar
1. Correction of errors
2..Construction of sentences
4. Translation ofKannada / English passagetoSanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation of slokas (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2 x2^{1/2} =05
6. Grammar (To be answered in Sanskrit only)
a) Correction of errors (5 of 8) 1x5=05
b) Construction of sentences (5 of 8) 5x1=05
7. Translation of Kannada /English Passage
into Sanskrit 1x5=5

Books for study & Reference:

1. Champu Ramayanam of Bhoja(Aranyakandam)-
Ed.Dr.M.G.Namita, Prasaranga, BUB
2. Champu Ramayanam of Bhoja, Chowkamba publications,Varanasi
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

IV Semester B.Com/LLB

Language Sanskrit Paper- IV

Max.marks-100

1. Title of the Paper--- Drama and Prachina vanijyam
2. Title of the Text --- Pratijnayaugandharayanam of Bhasa 70
3. Prachina vanijyam (Topics to be covered- Artha, Kosha, Vartha and Lekhya)
4. Internal assessment 30
5. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (1 of 2) 1x10=10
3. Short notes (2 of 4) 2x5=10
4. Translation and explanation of slokas (2 of 4) 2x6=12
5. Reference to context (2 of 4) 2x4=08
6. Prachina Vanijyam
- a) Essay type question (1 of 2) 1x10=10
- b) Short notes (2 of 4) 2x5=10

Books for study & Reference :

1. Pratijnayaugandharayanam of Bhasa
Ed.Dr.C. Shivakumaraswamy, Prasaranga, BUB
2. Pratijnayaugandharayanam of Bhasa,Chaukamba
Publications-Varanasi
3. Prachinavaniyam-Ed.
Dr.M. Sivakumaraswamy,BharaviPrakashana
4. Sanskrit Drama- A.B.Keith
5. History of Sanskrit Literature –M.Winternitz
6. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

Syllabus

I Semester BBM/ MTA/ MBS

Language Sanskrit Paper-1- Poetry

1. Select portion of a Mahakavya / Khandakavya
2. Textual Grammar
3. Comprehension
4. Internal Assessment

II Semester BBM/ MTA/ MBS

Language Sanskrit Paper-2 - Prose

1. Select portion of a Gadyakavya / Popular Tales
2. Textual Grammar
3. Translation from Sanskrit to Kannada / English
4. Internal Assessment

III Semester BBM/ MTA/ MBS

Language Sanskrit Paper -3- Champu

1. Select portion of a Champu
2. Textual Grammar
3. Translation from Kannada / English to Sanskrit
4. Internal Assessment

IV Semester BBM/ MTA/ MBS

Language Sanskrit Paper -4 - Drama

1. Select portion of a drama or a short drama
2. History of Smriti Literature
3. Internal Assessment

Text-Books

I Semester BBM/ MTA/ MBS

Language Sanskrit Paper- I

Max.marks-100

1. Title of the Paper--- Poetry, Grammar and Comprehension
2. Title of the Text --- Raghuvamsha of Kalidasa V canto
(50 Slokas) 70
3. Textual Grammar -1. Identification of gender, case and number of the nouns
2. Identification of tense, person and number of the verbs
4. Comprehension in Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Grammar (to be answered in Sanskrit only)
 - a) Identification of gender, case and number of the nouns (5 of 8) 05
 - b) Identification of tense, person and number of the verbs (5 of 8) 05
6. Comprehension in Sanskrit 10

Books for study & Reference :

1. Raghuvamsha of Kalidasa V canto-Ed. Dr.K.Narappa, Prasaranga, BUB
2. Raghuvamsha- Ed. M.R. Kale, MLBD
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature-S.Rangachar
5. History of Sanskrit Literature-M.Winternitz
6. Samskrita Sahitya Sameekshe (Kannada), - Dr.M.Sivakumaraswamy

II Semester BBM /MTA/MBS

Language Sanskrit Paper- II

Max.marks-100

1. Title of the Paper--- Prose, Grammar and Translation
2. Title of the Text --- Dashakumara Chairitam of Dandin
VI Pariccheda 70
3. Textual Grammar
1. Analysis and naming of Samasas
2. Change of voice
4. Translation from Sanskrit to Kannada / English
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation of Prose Passage (1 of 2) 1x12=12
4. Short notes (2 of 4) 2x2^{1/2}=05
5. Reference to context (2 of 4) 2x4=08
6. Grammar (To be answered in Sanskrit only)
- a) Analysis and naming of samasas (5 of 8) 1x5=05
- b) Change of voice (2 of 3) 2x2^{1/2}=05
7. Translation of Sanskrit Passage into
Kannada /English 1x5=5

Books for study & Reference :

1. Dashakumara Charitam of Dandin-VI Pariccheda –Ed.
Dr. Manjunatha Bhatta, Prasaranga, BUB
2. Dashakumara Charitam of Dandin-Ed. M.R. Kale, MLBD
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

III Semester BBM/MTA/MBS

Language Sanskrit Paper- III

Max.marks-100

1. Title of the Paper--- Champu, Grammar and Translation.
2. Title of the Text --- Champu Ramayana of Bhoja (Bala Kandan) upto 50 shlokas 70
3. Textual Grammar
 1. Correction of errors
 2. Construction of sentences
4. Translation of Kannada / English passage to Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation of slokas (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2x2^{1/2}=05
6. Grammar (To be answered in Sanskrit only)
 - a) Correction of errors (5 of 8) 5x1=05
 - b) Construction of sentences (5 of 8) 5x1=05
 - c) Translation of Kannada /English Passage into Sanskrit 1x5=5

Books for study & Reference :

1. Champu Ramayanam of Bhoja(Balakandan) Prasaranga, BUB
2. Champu Ramayanam of Bhoja, Chowkamba publications,Varanasi
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.- Dr.M.Sivakumaraswamy

IV Semester BBM / MTA / MBS
Language Sanskrit Paper- IV **Max.marks-100**

1. Title of the Paper--- Drama and History of Smriti Literature
2. Title of the Text --- Dutaghatotkacham of Bhasa 70
3. Smriti Literature (Topics to be covered- Manusmriti, Yajnavalkyasmriti, Parashara Smriti, Narada Smriti.)
4. Internal assessment 30
5. Teaching hours per week -4 CREDITS-2

Scheme of Examination

- | | | |
|--|----------|---------|
| 1. Multiple choice questions | | 1x10=10 |
| 2. Essay type questions | (1 of 2) | 1x10=10 |
| 3. Short notes | (2 of 4) | 2x5=10 |
| 4. Translation and explanation of slokas | (2 of 4) | 2x6=12 |
| 5. Reference to context | (2 of 4) | 2x4=08 |
| 6. Smriti literature | | |
| a) Essay type question | (1 of 2) | 1x10=10 |
| b) Short notes | (2 of 4) | 2x5=10 |

Books for study & Reference :

1. Dutaghatotkacham of Bhasa-Ed. by Prof. R.M.Ambli Prasaranga, BUB
2. History of Sanskrit Literature- S.Rangachar
3. Sanskrit Drama- A.B.Keith
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.- Dr.M.Sivakumaraswamy

Syllabus

I Semester BCA / BHM

Language Sanskrit Paper-1- Poetry

1. Select portion of a Mahakavya / Khandakavya
2. Textual Grammar
3. Comprehension
4. Internal Assessment

II Semester BCA / BHM

Language Sanskrit Paper-2 - Prose

1. Select portion of a Gadyakavya / Popular Tales
2. Textual Grammar
3. Translation from Sanskrit to Kannada / English
4. Internal Assessment

III Semester BCA / BHM

Language Sanskrit Paper -3- Champu

1. Select portion of a Champu
2. Textual Grammar
3. Translation from Kannada / English to Sanskrit
4. Internal Assessment

IV Semester BCA / BHM

Language Sanskrit Paper -4 - Drama

1. Select portion of a drama or a short drama
2. History of scientific Literature in Sanskrit
3. Internal Assessment

Text-Books

I Semester BCA / BHM

Language Sanskrit Paper- I

Max.marks-100

1. Title of the Paper--- Poetry, Grammar and Comprehension
2. Title of the Text --- Meghadutam of Kalidasa
(Purvamegha -50 slokas) 70
3. Textual Grammar -1. Identification of gender, case and
number of the nouns
2. Identification of tense, person and
number of the verbs
4. Comprehension in Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation of Slokas (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Grammar (to be answered in Sanskrit only)
 - a) Identification of gender, case and number
of the nouns (5 of 8) 05
 - b) Identification of tense, person and number
of the verbs (5 of 8) 05
6. Comprehension in Sanskrit 10

Books for study & Reference :

1. Meghadutam of Kalidasa-Ed. Dr.Sriram Bhat, Prasaranga, BUB
2. Meghadutam of Kalidasa-Ed.M.R. Kale, MLBD
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature- S. Rangachar
5. History of Sanskrit Literature-M.Winternitz
6. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

II Semester BCA / BHM

Language Sanskrit Paper- II

Max.marks-100

1. Title of the Paper--- Prose, Grammar and Translation
2. Title of the Text --- Kadambari of Bana -Mahashwetha
Vrittanta 70
3. Textual Grammar
1. Analysis and naming of Samasas
2. Change of voice
4. Translation from Sanskrit to Kannada / English
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation of Prose Passage (1 of 2) 1x12=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2 x 2^{1/2}=05
6. Grammar (To be answered in Sanskrit only)
- a) Analysis and naming of samasas (5 of 8) 1x5=05
- b) Change of voice (2 of 3) 2 x 2^{1/2}=05
6. Translation of Sanskrit Passage into
Kannada /English 1x5=5

Books for study & Reference :

1. Kadambari of Bana :Ed. Dr.Sree Srivatsa and
Dr.K.R.Kumudavalli Prasaranga BUB
2. Kadambari of Bana : M.R. Kale
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy

III Semester BCA/BHM

Language Sanskrit Paper- III

Max.marks-100

1. Title of the Paper---Champu, Grammar and Translation.
2. Title of the Text --- Champu Ramayana of Bhoja (Ayodhya Kadam) upto 50 shlokas 70
3. Textual Grammar
1. Correction of errors
2. Construction of sentences
4. Translation of Kannada / English passage to Sanskrit
5. Internal Assessment 30
6. Teaching hours per week -4 CREDITS-2

Scheme of Examination

1. Multiple choice questions 1x10=10
2. Essay type questions (2 of 3) 2x10=20
3. Translation and explanation of slokas (3 of 5) 3x4=12
4. Reference to context (2 of 4) 2x4=08
5. Short notes (2 of 4) 2 x2^{1/2}=05
6. Grammar (To be answered in Sanskrit only)
a) Correction of errors (5 of 8) 1x5=05
b) Construction of sentences (5 of 8) 5x1=05
7. Translation of Kannada /English Passage into Sanskrit 1x5=5

Books for study & Reference :

1. Champu Ramayanam of Bhoja(Ayodhyakadam)-
Ed.Dr.S.Ranganath,s Prasaranga, BUB
2. Champu Ramayanam of Bhoja, Chowkamba
publications,Varanasi
3. Higher Sanskrit Grammar-M.R. Kale
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),-
Dr.M.Sivakumaraswamy

IV Semester BCA/BHM

Language Sanskrit Paper- IV

Max.marks-100

1. Title of the Paper--- Drama and History of Scientific Literature
2. Title of the Text --- Charudattam of Bhasa
3. Scientific Literature (Topics to be covered- Ayurveda, 70
Astronomy and Mathematics- Sushruta, Charaka,
Vagbhata, Varahamihira, Aryabhata, Bhaskara –I,
Bhaskara –II, Mahaviracharya & Brahmagupta)
4. Internal assessment 30
5. Teaching hours per week -4 CREDITS-2

Scheme of Examination

- | | | |
|--|----------|---------|
| 1. Multiple choice questions | | 1x10=10 |
| 2. Essay type questions | (1 of 2) | 1x10=10 |
| 3. Short notes | (2 of 4) | 2x5=10 |
| 4. Translation and explanation of slokas | (2 of 4) | 2x6=12 |
| 5. Reference to context | (2 of 4) | 2x4=08 |
| 6. Scientific literature | | |
| a) Essay type questions | (1 of 2) | 1x10=10 |
| b) Short notes | (2 of 4) | 2x5=10 |

Books for study & Reference :

1. Charudattam of Bhasa-Ed. by Dr.H. Venkateshappa
Prasaranga, BUB
2. History of Sanskrit Literature- S.Rangachar
3. Sanskrit Drama- A.B.Keith
4. History of Sanskrit Literature –M.Winternitz
5. Samskrita Sahitya Sameekshe (Kannada),.-
Dr.M.Sivakumaraswamy
6. History of classical Sanskrit literature by T.K.Ramachandra Aiyar
7. Indian Mathematics and Astronomy : Dr.S.Balachandra Rao
8. A History of Sanskrit Literature : A.A. Macdonell

**Revised syllabus & Text-Books prescribed for B.A Optional Sanskrit
I to VI Semesters Under CBCS Scheme from the Academic year 2014-2015**

	Marks :	T. Hours	Credits
	IA	Exam.	
I Sem. B.A. Optional Sanskrit : Paper -I	50 + 100=150	5	3
Title of the Paper : Sanskrit poetry and Poetics			
1. Select portion of a Mahakavya / Khandakavya			
2. Select portion of a Text on Sanskrit Poetics			
II Sem. B.A. Optional Sanskrit : Paper –II	50 + 100=150	5	3
Title of the Paper : Sanskrit Drama & Dramaturgy			
1. Select portion of a Drama or a Short drama			
2. Select portion of a Text on Dramaturgy			
III Sem. B.A. Optional Sanskrit : Paper –III	50 + 100=150	5	3
Title of the Paper: Elements of Tarka and Vyakarana			
1. Select portion of a Tarka Text			
2. Select portion of Laghu Siddhanta Kaumudi			
IV Sem. B.A. Optional Sanskrit : Paper –IV	50 + 100=150	5	3
Title of the paper: Chandas and Alankara			
1. Select portion of a Text on Prosody			
2. Select portion of a Text dealing with Alankaras			
V Sem. B.A. Optional Sanskrit : Paper –V	50 + 100=150	4	3
Title of the Paper : Dutakavya in Sanskrit			
1. Select portion of a Dutakavya			
V Sem. B.A. Optional Sanskrit : Paper –VI	50 + 100=150	4	3
Title of the Paper : Shatakas in Sanskrit			
1. Select portion of a Shataka Text			
VI Sem. B.A. Optional Sanskrit : Paper –VII	50 + 100=150	4	3
Title of the Paper : Upanishad			
1. Select portion of a Upanishad / Upanishads			
VI Sem. B.A. Optional Sanskrit : Paper –VIII	50 + 100=150	4	3
Title of the Paper: Bhagavadgita			
1. Select portion from Bhagavadgita			

VII Semester B.A. Honours Programme or I Semester of the Post-Graduate Programme			
	Marks :	T. Hours	Credits
	IA Exam.		
Paper IX: Forms of Sanskrit Kāvya-1:	30 + 70=100	4	2
Gadyakāvya			
1. History and Forms of Gadyakāvya 2. Select portion/s of Gadyakāvya/s			
Paper X: Forms of Sanskrit Kāvya-2:	30 + 70=100	4	2
Mahākāvya			
i) History and Form of Mahākāvya ii) Select portion/s of Mahākāvya/s			
Paper XI: Sanskrit Vyākaraṇa-1	30 + 70=100	4	2
Select portion of Siddhāntakaumudī or its abridged versions – Saṃjñā to Strī-pratyaya prakaraṇas			
Paper XII: Indo-European Linguistics-1	30 + 70=100	4	2
i) Theories about the origin of language ii) Special branches of Linguistics iii) Growth of Language iv) Intellectual Laws of Language ; Semantics; v) The Production & Classification of sounds			
Paper XIII : Vedic Studies –1	30 + 70=100	4	2
i) Select hymns from Ṛgveda / Atharvaveda ii) Select portion of a Brāhmaṇa text			
Paper XIV: Smṛti and Gītā	30 + 70=100	4	2
i) General ii) Select portion of a Smṛti iii) Select portion of Bhagavadgītā			
Paper XV: Elements of Sanskrit Poetics	30 + 70=100	4	2
i) Kāvyalakṣana, ii) Kāvya-prayojana iii) Kāvya-hetu, iv) Kāvya-bheda V) Concepts of Rasa, Alaṅkāra, Rīti (Mārga), Guṇa, Dhvani, Vakrokti, Aucitya & Anumāna			

VIII Semester B.A. Honours Programme or II Semester of the Post-Graduate Programme			
	Marks :	T. Hours	Credits
	IA	Exam.	
Paper XVI: Forms of Sanskrit Kāvya-3 Campū i) History and Form of Campū ii) Select portion/s of Campūkāvya/s	30 + 70=100	4	2
Paper XVII: Forms of Sanskrit Kāvya-4 Rūpaka i) History and Forms of Rūpaka ii) Select portion/s of Rūpaka/s	30 + 70=100	4	2
Paper XVIII: Sanskrit Vyākaraṇa-2 Select portion of Siddhāntakaumudī or its abridged versions –Kāraka and Samāsa prakaraṇas	30 + 70=100	4	2
Paper XIX: Indo-European Linguistics-2 i) Phonetic laws ii) Phonetic changes (Metathesis, etc) iii) Accents and their effects iv) Vowel-gradation and Ablaut in Indo-European v) Languages of India – Dravidian and Aryan	30 + 70=100	4	2
Paper XX : Vedic studies – 2 i) Select portions of an Upaniṣad or a short Upaniṣad ii) Select portions of Nirukta	30 + 70=100	4	2
Paper XXI: Ancient Indian Rājanīti i) General : History of Hindu Polity ii) Select portion of Kauṭilya's Arthaśāstra	30 + 70=100	4	2
Paper XXII: Elements of Darśanas Prameyas and Pramāṇas of Cārvāka, Bauddha, Jaina, Nyāya- Vaiśeṣika, Sāṅkhya, Yoga and Pūrvamīmāṃsā.	30 + 70=100	4	2

Prescribed texts and scheme of Examination for B.A. optional Sanskrit I to VI Semesters under the CBCS Scheme from the Academic year 2014-2015

I Sem. B.A. Optional Sanskrit : Paper –I **Max. Marks-150**

Title of the Paper : Sanskrit poetry and Poetics

- | | |
|--|----|
| 1. Kavyaprakasha of Mammata (Chap. -1) | 50 |
| 2. Raghuvamsha of Kalidasa (Canto -1) | 50 |
| 3. Internal Assessment | 50 |

II Sem. B.A. Optional Sanskrit : Paper –II **Max. Marks-150**

Title of the Paper : Sanskrit Drama & Dramaturgy

- | | |
|--|----|
| 1. Charudattam of Bhasa | 50 |
| 2. Dasharupaka of Dhananjaya (Chap.-1) | 50 |
| 3. Internal Assessment | 50 |

III Sem. B.A. Optional Sanskrit : Paper –III **Max. Marks-150**

Title of the Paper: Elements of Tarka and Vyakarana

- | | |
|--|----|
| 1. Tarkasangraha of Annambhatta | 60 |
| 2. Samjna and Paribhasha Prakaranas of LaghusiddhantaKaumudi | 40 |
| 3. Internal Assessment | 50 |

IV Sem. B.A. Optional Sanskrit : Paper –IV **Max. Marks-150**

Title of the paper: Chandas and Alankara

- | | |
|---|----|
| 1. Vrittaratnakara of Kedarabhata
(The following metres only-Anushtubh, Indravajra,
Upendravajra, Upajati, Rathodhdhata, Shalini,
Bhujangaprayata, Malati, Vamasastha, Vasantatilaka,
Malini, Mandakranta, Shardulavikridita, Sragdara,
Arya, Vaitaliya) | 40 |
| 2. Chandraloka of Jayadeva (From upama to Vytireka) | 60 |
| 3. Internal Assessment | 50 |

V Sem. B.A. Optional Sanskrit : Paper –V **Max. Marks-150**

Title of the Paper : Dutakavya in Sanskrit

- | | |
|---------------------------------------|-----|
| 1. Meghaduta of Kalidasa (Purvamegha) | 100 |
| 2. Internal Assessment | 50 |

V Sem. B.A. Optional Sanskrit : Paper –VI **Max. Marks-150**

Title of the Paper : Shatakas in Sanskrit

- | | |
|---|-----|
| 1. Nitishataka of Bhartruhari (From Murkhapaddhati to Sujanapaddhati) | 100 |
| 2. Internal Assessment | 50 |

VI Sem. B.A. Optional Sanskrit : Paper –VII **Max. Marks-150**

Title of the Paper : Upanishad

- | | |
|------------------------|-----|
| 1. Kathopanishad | 100 |
| 2. Internal Assessment | 50 |

VI Sem. B.A. Optional Sanskrit : Paper –VIII **Max. Marks-150**

Title of the Paper: Bhagavadgita

- | | |
|----------------------------------|-----|
| 1. Bhagavadgita (Chap.-III & IV) | 100 |
| 2. Internal Assessment | 50 |

VII Semester B.A Honours Programme or I Semester of the Post-Graduate Programme

Paper IX: Forms of Sanskrit Kāvya-1: Gadyakāvya **Max. Marks-100**

Text: Harṣacarita, Ucchvāsa-1

- | | |
|---|----|
| Unit 1: History and Forms of Gadyakāvya | 14 |
| Unit 2: Bāṇa and his poetic abilities | 14 |
| Unit 3-5: Text | 42 |
| Internal Assessment | 30 |

Paper X:Forms of Sanskrit Kāvya-2 Mahākāvya **Max. Marks-100**

Text : Naiṣadhacarita, Sarga 1

- | | |
|---|----|
| Unit 1: History and Form of Mahākāvya | 14 |
| Unit 2: Śrīharṣa & his Poetic abilities | 14 |
| Unit 3-5: Text | 42 |
| Internal Assessment | 30 |

Paper XI: Sanskrit Vyākaraṇa-1 **Max. Marks-100**

Text: Abhinavapāṇinīyam : Ed. M.Sivakumara Swamy

- | | |
|---|----|
| Units: 1-5: Subanta, Sūtras 47-56; Ajanta-pullīṅga-Rāma, Sarva; Ajanta-strīlīṅga-Latā, Mati; Ajanta-napuṃsakalīṅga-Jñāna, Vari; Halanta-pullīṅga-Lih, Maghavan; Halanta- strīlīṅga –Upānah, Diś; Halanta- napuṃsakalīṅga- Svanaduh, Brahman; Avyayāni; Strī-pratyaya, Sūtras 305-317. | 70 |
| Internal Assessment | 30 |

PaperXII:Indo-European Linguistics-1	Max. Marks-100
Unit 1: Theories about the origin of language	14
Unit 2: Special branches of Linguistics	14
Unit 3: Growth of Language	14
Unit 4: Intellectual Laws of Language ; Semantics;	14
Unit 5: The Production & Classification of sounds	14
Internal Assessment	30

Paper XIII : Vedic Studies -1	Max. Marks-100
Text: Vedabhāratī : Ed. M.Sivakumara Swamy	
Unit 1: General : Definition & parts of Veda; Topics on Ṛgveda.	14
Units 2-3: Sūktas-Viṣṇu (I.154), Varuṇa (II.28), Rudra (II.33), Viśvāmitra- Nadī-Samvāda (III.33), Bhāvavṛtta (X.129).	28
Unit 4-5: Aitareya-brāhmaṇa-Sunaḥ-śepākhyāna (VII.3).	28
Internal Assessment	30

Paper XIV: Smṛti and Gītā	Max. Marks-100
Text: Smṛti: Yājñavalkyasmṛti, Ācārādhyāya, Rājadharmaprakarana (13) Gītā: Bhagavadgītā, chapter -2	
Unit 1: General: History of Smṛtis, & Teachings of Bhagavadgītā	14
Unit 2-3: Smṛti text	28
Unit 4-5: Gītā text	28
Internal Assessment	30

Paper XV: Elements of Sanskrit Poetics	Max. Marks-100
Unit 1: Kāvyalakṣana & Kāvya-prayojana	14
Unit 2: Kāvya-hetu & Kāvya-bheda	14
Unit 3-5: Concepts of Rasa, Alaṅkāra, Rīti (Mārga), Guṇa, Dhvani, Vakrokti, Aucitya & Anumāna	42
Internal Assessment	30

VIII Semester B.A Honours Programme or II Semester of the Post-Graduate Programme

Paper XVI: Forms of Sanskrit Kāvya-3 Campū	Max. Marks-100
Text: Nīlakaṇṭhaviḥayacampū, Chap. 1	
Unit 1: History and Form of Campū	14
Unit 2: Nīlakaṇṭhadīkṣita & his Poetic skill	14
Units 3-5: Text	42
Internal Assessment	30
Paper XVII: Forms of Sanskrit Kāvya-4 Rūpaka	Max. Marks-100
Text: Mṛcchakaṭika of Śūdraka: Acts 1-4	
Unit 1: History and Forms of Rūpaka	14
Unit 2: Śūdraka & his Dramatic skill	14
Units 3-5: Text	42
Internal Assessment	30
Paper XVIII: Sanskrit Vyākaraṇa-2	Max. Marks-100
Text: Abhinavapāṇinīyam	
Unit 1: History of Pāṇinian Grammatical Tradition	14
Units 2-5: Kāraka & Samāsa prakaraṇas	56
Internal Assessment	30
Paper XIX: Indo-European Linguistics-2	Max. Marks-100
Unit 1: Phonetic laws	14
Unit 2: Phonetic changes (Metathesis, etc)	14
Unit 3: Accents and their effects	14
Unit 4: Vowel-gradation and Ablant in Indo-European	14
Units 5: Languages of India – Dravidian and Aryan	14
Internal Assessment	30
Paper XX : Vedic studies – 2	Max. Marks-100
Texts: Kaṭhopaniṣad, 1-3 Vallīs Nirukta, Chapter-1	
Unit 1: Teachings of the Upaniṣads History of Vedāṅgas	14
Units 2-3: Upaniṣad text	28
Units 4-5: Nirukta text	28
Internal Assessment	30

Paper XXI: Ancient Indian Rājanīti

Max. Marks-100

Text: Kauṭilya's Arthaśāstra, Adhikaraṇa -1	
Unit 1: General : History of Hindu Polity	14
Units 2-5: Text	56
Internal Assessment	30

Paper XXII: Elements of Darśanas

Max. Marks-100

Units 1-2: Prameyas and Pramāṇas of Carvāka, Bauddha &Jaina.	28
Units 3-4: Prameyas and Pramāṇas Nyāya- Vaiśeṣika & Sāṅkhya-Yoga.	28
Unit 5: Prameyas and Pramāṇas Pūrvamīmāṃsā.	14
Internal Assessment	30

(DR.C.SHIVARAJU)

Chairman

Board of Studies in Sanskrit (U.G.)

BANGALORE UNIVERSITY
BOARD OF STUDIES IN TAMIL AND MALAYALAM (UG)

Prof. U. BASAVARAJU,
Associate Professor & HOD of Tamil,
Maharani's Arts, Commerce &
Management College for women,
Seshadri Road, Bangalore – 1. &
Chairman BOS in Tamil & Malayalam (UG)
Bangalore University

RESIDENCE :
230/23, 3rd Cross,
Venkatapura,
Koramangala 1st Block,
Bangalore – 560 034.
Res Ph : 080 - 25633071
Mobile No : 9945216381

Date : 30/08/2013

Minutes of the proceedings of the Board of Studies meeting in Tamil & Malayalam held on 30-08-2013 at 10:30 A.M. at Central College, City Campus, Bangalore University, Bangalore – 560 001.

Members Present

Signature.

1) Prof. U. Basavaraju,	Chairperson	sd/-
2) Dr. A. Sudhakar	Member	sd/-
3) Smt. S. Sivagami	Member	sd/-
4) Dr. K. Vijayalakshmi	Member	sd/-
5) Shaila Davis (Malayalam)	Member	sd/-
6) Dr. S. A. Rajarajan	External Member	sd/-

Member Absent

- 1) Prof. R. A. Thangamraja
- 2) Prof. K.Niraimathi

The following resolutions are passed in B.O.S meeting in Tamil & Malayalam.

As the B.O.S has finalized syllabi for Part-I Tamil, Part-II optional Tamil and Part-I Malayalam. It is resolved to submit it to the Bangalore University to be placed before the next Academic Council Meeting for approval subject to availability. If the books are not available in the market at the time of Academic year, the BOS has reserves the right to replace the titles available.

The list of Text books and the Pattern of question papers in Part-I Tamil, Part-II optional Tamil and Part-I Malayalam for the various Under Graduate Courses under the Semester Scheme from the Academic Year 2014-15 onwards for a period of 3 years and also for correspondence courses (UG) (Annual Scheme) under Bangalore University.

According to new CBCS rules, Language theory under Part - I carries 70 marks and internal assessment carries 30 marks. Under Part – II optional subject theory carries 100 marks and internal assessment carries 50 marks from the Academic year 2014 – 15. Syllabus and Question paper pattern will be as follows.

1. LANGUAGE TAMIL	Theory Marks	:	70
	Internal Assessment	:	30
LANGUAGE MALAYALAM	Theory Marks	:	70
	Internal Assessment	:	30

For Language Tamil and Malayalam Internal Assessment 30 marks is divided as follows

Attendance Marks	:	10
Class Test	:	10
Assignment & Seminars	:	10

2. OPTIONAL TAMIL	Theory Marks	:	100
	Internal Assessment	:	50

For Optional Tamil Internal Assessment 50 Marks is divided as follows :

Attendance Marks	:	10
Seminar	:	10
Assignment & Seminars	:	10
Class Test & Internal Exams	:	20

Prof. U. BASAVARAJU,
Chairman BOS in Tamil & Malayalam (UG)
Bangalore University

The following syllabus is prescribed for the various under Graduate Courses under Bangalore University (Semester Scheme) in the subject : TAMIL.

**FIRST SEMESTER BA/BSC/BCA/BSC (FAD) - PAPER – I
FROM 2014-2015.**

POETRY, SHORT STORY, KADITHAM VARAITHAL, PAYANPATTU TAMIZH

TAMIL PAA THIRATTU – I

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

1. BHARATHIYAR
2. AYALAGAKKAVITHAIGAL

II. SHORT STORY

ANNA SALAIYIL ORU INDIAN –

COLLECTION OF SHORT STORIES
by 12 different Authors & Published
by Vanathi Pathippagam, T.Nagar,
Chennai – 17.

III. KADITHAM VARAITHAL -

General Letters

IV. PAYANPATTU TAMIZH -

TAMIL PAA THIRATTU – 1
Pages from 60-97

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) BHARATHIYAR	Main Question	10 Marks
	Annotation	04 Marks
2) AYALAGAKKAVITHAIGAL	Main Question	10 Marks
	Annotation	04 Marks

II. SHOR TY STORY

ANNA SALAIYIL ORU INDIAN	One out of Three	15 Marks
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III. KADITHAM VARAITHAL

General Letters	07 Marks
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IV. PAYANPATTU TAMIZH

5 out of 7	5 x 4	20 Marks
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Theory Total 70 Marks

Internal Assessment 30 Marks

Teaching Hours per week : 04 CREDITS : 02 **Total**

100 Marks

**SECOND SEMESTER BA/BSC/BCA/BSC (FAD) – PAPER - II
FROM 2014-2015.**

POETRY, ASIRIYAR KURIPPU, PROSE, KATTURAI VARAITHAL

TAMIL PAA THIRATTU – I

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

1. VAINAVA ILAKKIYAM

2. SITRILAKKIYAM

- a) Nandikkalambagam
- b) Vikkiramacholanula
- c) Mukkudar Pallu.

II. ASIRIYAR KURIPPU –

Related to Poetries

III. PROSE – KATTURAI MANIGAL

Dr. Pon. SOURIRAJAN, Published
by Paari Nilayam, 90, Broadway,
Chennai – 108.

IV. KATTURAI VARAITHAL -

An Essay on any General Topic

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) VAINAVA ILAKKIYAM

Main Question 10 Marks

Annotation 04 Marks

2) CITRILAKKIYAM

Main Question 10 Marks

Annotation 04 Marks

II. ASIRIYAR KURIPPU

2 out of 4 2 x 3 06 Marks

III. PROSE : KATTURAIMANIGAL

2 out of 4 2 x 14 28 Marks

IV. KATTURAI VARAITHAL

1 out of 2 1 x 8 08 Marks

Theory Total 70 Marks

Internal Assessment 30 Marks

Teaching Hours per week : 04

CREDITS : 02

Total

100 Marks

**THIRD SEMESTER BA/BSC/BCA/BSC (FAD) – PAPER – III
FROM 2015-2016.**

POETRY, NOVEL, MOZHI PEYARPPU, TAMIZH ILLAKKANAM

TAMIL PAA THIRATTU – II

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

1. NEETHI ILLAKKIYAM
 - a) Naaladiar
 - b) Nanmanikkadigai
 - b) Pazhamozhi
2. KAAPPIYAM – CILAPPATHIGARAM

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

II. NOVEL : VIDI VELLI -

Aykkkan, Published by
Manivasagar Pathippagam,
Parimunai, Chennai.

III. MOZHI PEYARPPU -

Translation. No prescribed text book
An English passage of reasonable
length and difficulty to be translated
into Tamil

IV. TAMIZH ILLAKKANAM–

Tamil Paa Thiratta – II
Page No. from 58 – 91.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) NEETHI ILLAKKIYAM	Main Question	10 Marks
	Annotation	04 Marks
2) KAAPPIYAM – CILAPPATHIGARAM	Main Question	10 Marks
	Annotation	04 Marks

II. NOVEL : VIDI VELLI

1 out of 3 15 Marks

III. MOZHI PEYARPPU (English to Tamil) -

07 Marks

IV. TAMIZH ILLAKKANAM

5 out of 8 5 x 4 20 Marks
Theory Total 70 Marks

Internal Assessment 30 Marks

Teaching Hours per week : 04

CREDITS : 02

Total

100 Marks

**FOURTH SEMESTER BA/BSC/BCA/BSC (FAD) – PAPER – IV
FROM 2015-2016.**

ANCIENT POETRY, DRAMA, KOPPUTHAYARITHAL, PRECIS WRITING

TAMIL PAA THIRATTU – II

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

1. NEETHI ILAKKIYAM- Thirukkural

2. PATTINAPPALAI

II. DRAMMA – VALLALAR

By T.V. Rajendran, Published by
Aruna Publications, 12, 1ST Street,
North Jagannatha Nagar,
Villivakkam, Chennai – 600 049.

III. KOPPUTHAYARITHAL (File Preparation)

IV. MOONTRIL ORU PANGAGA CHURUKKI VARAITHAL – (Precis Writing)

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) THIRUKKURAL

Main Question 10 Marks
Annotation 04 Marks

2) PATTINAPPALAI

Main Question 10 Marks
Annotation 04 Marks

II. DRAMA –VALLALAR

Main Question 15 Marks
Short Notes 2 x 5 10 Marks

III. KOPPUTHAYARITHAL (File Preparation)

08 Marks

IV. PRECIS WRITING

09 Marks

Theory Total 70 Marks

Internal Assessment 30 Marks

Teaching Hours per week : 04

CREDITS : 02

Total

100 Marks

**FIRST SEMESTER BCOM /BBM /BHM – PAPER – I
FROM 2014-2015.**

POETRY, PUTHINAM, VANIGAVIAL KATTURAI, PAYANPATTU TAMIZH

TAMIL PAA THIRATTU – I

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

1. BHARATHI DASAN
2. PENNIYAKKAVITHAIGAL

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

II. PUTHINAM – (NOVEL) – KALMARAM

By Thilagavathi, I.P.S.
Amrutha Pathippagam, Chennai

III. VANIGAVIYAL KATTURAI

An Essay on an General Topic
related to Commercial Tamil.

IV. PAYANPATTU TAMIZH

TAMIL PAA THIRATTU – 1
Page No. from 60-97.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

- 1) BHARATHI DASAN

Main Question	10 Marks
Annotation	04 Marks

- 2) PENNIYAKKAVITHAIGAL

Main Question	10 Marks
Annotation	04 Marks

II. PUTHINAM (NOVEL)

KALMARAM

One out of Three	15 Marks
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III. VANIGAVIYAL KATTURAI

One out of Two	07 Marks
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IV. PAYANPATTU TAMIZH

5 out of 8	5 x 4	20 Marks
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Theory Total **70 Marks**

Internal Assessment **30 Marks**

Teaching Hours per week : 04 CREDITS : 02 **Total**

100 Marks

**SECOND SEMESTER BCOM /BBM /BHM – PAPER – II
FROM 2014-2015.**

POETRY, ASIRIYAR KURIPPU, SHORT STORIES, PRECIS WRITING

TAMIL PAA THIRATTU – I

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

1. SAIVA ILAKKIYAM

2. TANIPPADALGAL

- a) Avvaiyar
- b) Ottakkuthar
- c) Pugazhendi

II. ASIRIYAR KURIPPU

Related to Poetries

III. SHORT STORIES

IDIUDAN KUDIYA MAZHAI NALIL

Compiled by Thirunavukarasu,
Vanathi Pathippagam, Chennai.

IV. PRECIS WRITING

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) SAIVA ILAKKIYAM

Main Question

10 Marks

Annotation

04 Marks

2) TANIPPADAL GAL

Main Question

10 Marks

Annotation

04 Marks

II. ASIRIYAR KURIPPU Related to Poetries

2 out of 4 2 x 3

06 Marks

III. SHORT STORIES

IDIUDAN KUDIYA MAZHAI NALIL

2 out of 4 2 x 14

28 Marks

IV. PRECIS WRITING

08 Marks

Theory Total

70 Marks

Internal Assessment

30 Marks

Teaching Hours per week : 04

CREDITS : 02

Total

100 Marks

**THIRD SEMESTER BCOM /BBM /BHM – PAPER – III
FROM 2015-2016.**

POETRY, PROSE, KOPPUTTAYARITHAL, TAMIZH ILAKKANAM

TAMIL PAA THIRATTU – II

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

1. NEETHI ILAKKIYAM
 - a) Naaladiar
 - b) Pazhamozhi
 - c) Thirigadugam

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

2. KAPPIYAM – Kambaramayanam.

II. PROSE

ILAKKIYA ULA

By Dr. M. Thirumalai
Paari Nilayam, Broadway,
Chennai -14

III. KOPPUTTAYARITHAL - (File Preparation)

IV. TAMIZH ILAKKANAM –

TAMIL PAA THIRATTU – II
Page No. from 58 to 91

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 100

I. POETRY

1) NEETHI ILAKKIYAM	Main Question	10 Marks
	Annotation	04 Marks
2) KAPPIYAM – Kambaramayanam.	Main Question	10 Marks
	Annotation	04 Marks

II. PROSE - ILAKKIYA ULA

1 out of 3 15 Marks

III. KOPPUTTAYARITHAL (File Preparation)

07 Marks

IV. TAMIZH ILAKKANAM

5 out of 8 5 x 4 20 Marks

Theory Total 70 Marks

Internal Assessment 30 Marks

Teaching Hours per week : 04 CREDITS : 02 **Total**

100 Marks

**FIRST SEMESTER B.A. OPTIONAL TAMIL - PAPER – 1
FROM 2014-2015.**

I. GRAMMAR	:	NANNOOL	I. EZHUTHIAL II. PATHAVIAL
II HISTORY & CULTURE	:	TAMIZHAGA VARALARU MAKKALUM PANPAADUM CHAPTER 1 TO 5. DR. K.K. PILLAI PUBLISHED BY INTERNATIONAL INSTITUTE OF TAMIL STUDIES, TARAMANI, CHENNAI – 113.	
III. DRAMA: PICIRANTHAIYAR			PUBLISHED BY SAIVA SIDDHANTHA KAZHAGAM, CHENNAI – 1.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. GRAMMAR :	NANNOOL	I. EZHUTHIAL	4 x 5	20 Marks
		II. PATHAVIAL	4 x 5	20 Marks
II. HISTORY & CULTURE :		TAMIZHAGA VARALARU MAKKALUM PANPAADUM 2 out of 4	2 x 15	30 Marks
III. DRAMA : PICIRANTHAIYAR		Main Question	1 x 20	20 Marks
		Annotation	2 x 5	10 Marks

Theory Total 100 Marks

Internal Assessment 50 Marks

Teaching Hours per week : 05 CREDITS : 03 **Total**

150 Marks

**SECOND SEMESTER B.A. OPTIONAL TAMIL - PAPER – II
FROM 2014-2015**

I. GRAMMAR	:	NANNOOL	I. PEYARIYAL II. VINAIYIAL
II. HISTORY & CULTURE	:	TAMIZHAGA VARALARU MAKKALUM PANPAADUM CHAPTER 6 TO 10. Dr. K.K. PILLAI PUBLISHED BY INTERNATIONAL INSTITUTE OF TAMIL STUDIES, TARAMANI, CHENNAI – 113.	
III. NOVEL : KARUVACHI KAVIYAM :		By Vairamuthu, PUBLISHED BY SURYA LITERATURE PVT LTD, CHENNAI – 24.	

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. GRAMMAR :	NANNOOL	I. PEYARIYAL 4 x 5	20 Marks
		II. VINAIYIAL 4 x 5	20 Marks
II. HISTORY & CULTURE :	TAMIZHAGA VARALARU MAKKALUM PANPAADUM 2 out of 4	2 x 15	30 Marks
III. NOVEL : KARUVACHI KAVIYAM	Main Question	1 x 20	20 Marks
	Annotation	2 x 5	10 Marks
		Theory Total	100 Marks
		Internal Assessment	50 Marks
Teaching Hours per week : 05	CREDITS : 03	Total	150 Marks

**THIRD SEMESTER B.A. OPTIONAL TAMIL - PAPER – III
FROM 2015-2016**

I. GRAMMAR	:	YAPPARUNGALAKKARIGAI
II. HISTORY & CULTURE	:	TAMIZHAGA VARALARU MAKKALUM PANPAADUM Chapters 11 to 15 Dr. K.K. PILLAI PUBLISHED BY INTERNATIONAL INSTITUTE OF TAMIL STUDIES, TARAMANI, CHENNAI – 113.
III. SEMMOZHI CHINTHANAI (ESSAYS)	:	Dr. S. SREEKUMAR PUBLISHED BY SHREE SENBAGA, PATHIPPAGAM, CHENNAI – 17.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. GRAMMAR :	YAPPARUNGALAKKARIGAI	8 out of 10	8 x 5	40 Marks
II. HISTORY & CULTURE :	TAMIZHAGA VARALARU MAKKALUM PANPAADUM	2 out of 4	2 x 15	30 Marks
III. SEMMOZHI CHINTHANAI		2 out of 4	2 x 15	30 Marks
			Theory Total	100 Marks
			Internal Assessment	50 Marks
Teaching Hours per week : 05	CREDITS : 03	Total		150 Marks

**FOURTH SEMESTER B.A. OPTIONAL TAMIL - PAPER – IV
FROM 2015-2016**

I. GRAMMAR	:	THANDIYALANGARAM
II. HISTORY & CULTURE	:	TAMIZHAGA VARALARU MAKKALUM PANPAADUM CHAPTER 16 TO 20. Dr. K.K. PILLAI PUBLISHED BY INTERNATIONAL INSTITUTE OF TAMIL STUDIES, TARAMANI, CHENNAI – 113.

III. POETRY – PORUNARATRUPPADAI

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. GRAMMAR :	THANDIYALANGARAM		
	8 out of 10	8 x 5	40 Marks
II. HISTORY & CULTURE :	TAMIZHAGA VARALARU MAKKALUM PANPAADUM		
	2 out of 4	2 x 15	30 Marks
III. POETRY – PORUNARATRUPPADAI	Main Question	1 x 20	20 Marks
	Annotation	2 x 5	10 Marks
		Theory Total	100 Marks
		Internal Assessment	50 Marks
Teaching Hours per week : 05	CREDITS : 03	Total	150 Marks

**FIFTH SEMESTER B.A. OPTIONAL TAMIL - PAPER – V
FROM 2016-2017**

I. GRAMMAR	:	THOLKAPPIAM – AGATTHINAIYIAL
II. ANCIENT POETRY	:	1. NATTRINAI (FOR EACH THINAI 2 VERSES)
III. MULLAI PATTU		
IV. HISTORY OF LANGUAGE	:	MOZHIYIN THOTRAMUM VALARCHIYUM

PATTERN OF QUESTION PAPER

TIME : 3 HRS

Max Marks : 150

I. GRAMMAR :	THOLKAPPIAM – AGATTHINAIYIAL		
	Main Question	2 x 15	30 Marks
	Short Notes	2 x 5	10 Marks
II. ANCIENT POETRY :	NATTRINAI		
	Main Question	1 x 15	15 Marks
	Annotation	1 x 5	05 Marks
III. MULLAI PATTU	Main Question		15 Marks
	Annotation		05 Marks
IV. HISTORY OF LANGUAGE			
MOZHIYIN THOTRAMUM VALARCHIYUM	Main Question		20 Marks
		Theory Total	100 Marks
		Internal Assessment	50 Marks
Teaching Hours per week : 05	CREDITS : 03	Total	150 Marks

**FIFTH SEMESTER B.A. OPTIONAL TAMIL - PAPER – VI
FROM 2016-2017**

I. GRAMMAR	:	THOLKAPPIAM – PURATTHINAYIAL
II. ANCIENT POETRY	:	PURANAANURU (10 POEMS)
III. HISTORY OF LANGUAGE:		DRAVIDA MOZHIGALIN VOPPILAKKANAM – Dr. Coldwell.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. GRAMMAR :	THOLKAPPIAM – PURATTHINAYIAL		
	Main Question	2 x 15	30 Marks
	Short Notes	2 x 5	10 Marks

II. ANCIENT POETRY :	PURANAANURU		
	Main Question	2 x 10	20 Marks
	Annotation	2 x 5	10 Marks

III. HISTORY OF LANGUAGE :

DRAVIDA MOZHIGALIN VOPPILAKKANAM-	Main Question	1 x 20	20 Marks
	Short Notes	2 x 5	10 Marks

Theory Total 100 Marks

Internal Assessment 50 Marks

Teaching Hours per week : 05 CREDITS : 03 **Total** **150 Marks**

**SIXTH SEMESTER B.A. OPTIONAL TAMIL - PAPER – VII
FROM 2017-2018**

I. SANGAMARVIYA ILLAKKIYAM : THIRUKKURAL - 9 ATHIGARANGAL
(ARAM – 3, PORUL-3, INBAM-3)

II. ILAKKIYATTHIRANAIVU (LITERARY CRITICISM)

III. MOZHIPEYARPPUKKALAI : Prof SHANMUGA VELAYUTHAM
Published by International Institute of
Tamil Research, Tharamani, Chennai – 113.

PATTERN OF QUESTION PAPER

TIME : 3 Hrs

Max Marks : 150

I. THIRUKKURAL	2 out of 4	Main Question 2 x 15	30 Marks
		Annotation 2 x 5	10 Marks
II. ILAKKIYATTHIRANAIVU	2 out of 4	Main Question 2 x 15	30 Marks
III. MOZHIPEYARPPUKKALAI	2 out of 4	Main Question 2 x 15	30 Marks

Theory Total 100 Marks

Internal Assessment 50 Marks

Teaching Hours per week : 05 CREDITS : 03 **Total** **150 Marks**

**SIXTH SEMESTER B.A. OPTIONAL TAMIL - PAPER – VIII
FROM 2017-2018**

I. COMPARATIVE STUDY OF SOUTH INDIAN LITERATURE

PATTERN OF QUESTION PAPER

TIME : 3 HRS

Max Marks : 150

I SHORT NOTES	5 out of 7	5 x 5	25 Marks
II MAIN QUESTIONS	3 out of 5	3 x 10	30 Marks
III ESSAY TYPE QUESTIONS	3 out of 5	3 x 15	45 Marks
		Theory Total	100 Marks
		Internal Assessment	50 Marks
Teaching Hours per week : 05	CREDITS : 03	Total	150 Marks

BOOKS RECOMMENDED

- 1). Dr. S.V. Subramaniyan, Dravida Mozhi Ilakkiyangal
- 2). Manava Musthaba, Dravida Oppiyal Ilakkiyam
- 3). Kailasapathy, Oppilakkiya Aivu
- 4). Dr. M. Varadarajan, Tamil Ilakkiya Varalaru.
- 5). Rice Edward. P History of Kannada Literature
- 6). Seethapathi. G.V. History of Telugu Literature
- 7). Parameswaran Nair P.K. Malayala Ilakkiya varalara.

**The Following Syllabus is Prescribed for Correspondence Course (UG)
(Annual Scheme) under Bangalore University in the Subject : TAMIL**

CORRESPONDENCE COURSE

FIRST YEAR BA/BCOM /BBM - FROM 2014-2015.

TAMIL PAA THIRATTU – I

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

1. BHARATHIYAR
2. AYALAGAKKAVITHAIGAL
3. SAIVA ILAKKIYAM
4. TANIPPADALGAL
 - a) Avvaiyar
 - b) Ottakkuthar
 - c) pugazhendi

Main Question
3 out of 5 3 x 10 30 Marks

ANNOTATIONS

3 out of 5 3 x 05 15 Marks

II. PUTHINAM (NOVEL) – KALMARAM

by Thilagavathi IPS
Amrutha Pathippagam, Chennai

Main Question
1 out of 3 20 Marks

III. SHORT STORIES -

ANNA SALAIYIL ORU INDIAN
COLLECTION OF SHORT STORIES
by 12 different Authors & Published
by Vanathi Pathippagam, T. Nagar
Chennai - 17

Main Question
1 out of 3 20 Marks

IV. KATTURAI VARAITHAL –

An Essay on any General Topic

1 out of 2 15 Marks

TOTAL

100 Marks

SECOND YEAR BA - FROM 2015 - 2016.

TAMIL PAA THIRATTU – II

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

1. Manimegalai
2. Thiruvilaiyadal Puranam
3. Puranaanuru
4. Thirukkural

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

ANNOTATIONS

II. PROSE : KATTURAI MANIGAL

Dr Pon Sourirajan, Published
by Paari Nilayam, Broadway,
Chennai – 108.

Main Question
3 out of 5 3 x 10 30 Marks
3 out of 5 3 x 05 15 Marks
Main Question
1 out of 3 20 Marks

III. DRAMA : VALLALAR

T.V. Rajendran, Published by
Aruna Publication, Villivakkam,
Chennai

Main Question
1 out of 3 20 Marks

IV. MOZHI PEYARPPU – (TRANSLATION)

15 Marks

TOTAL

100 Marks

SECOND YEAR B.COM - FROM 2015 - 2016.

TAMIL PAA THIRATTU – II

ED : TEXT BOOK COMMITTEE

I. POETRY SELECTIONS

1. Cilappathigaram
2. Kambaramayanam
3. Pattinappaalai
4. Thirukkural

Printed & Published by
Prasaranga, Bangalore University
Bangalore – 560 001.

ANNOTATIONS

II. PROSE : VIYABARATHAI ATHIKARIPPATHU

EPPADI, by Vimalanath, Kannadasan
Pathippagam, Chennai – 17.

Main Question
3 out of 5 3 x 10 30 Marks
3 out of 5 3 x 05 15 Marks

III. NOVEL : VIDI VELLI

Aykan, Published by Manivasagar
Pathippagam, Paarimunai, Chennai

Main Question
1 out of 3 20 Marks

IV. MADAL VARAITHAL – Business Correspondence

15 Marks

TOTAL

100 Marks

The prescribed Tamil books are made available in Higginbotham, Publishers and Book sellers, M.G. Road, Bangalore for the convenience of the students.

**DEPARTMENT OF TELUGU
BANGALORE UNIVERSITY BANGALORE
TELUGU SYLLABUS FOR UNDERGRADUTE COURSES CBCS
(CHOICE BASED CREDIT SYSTEM) – SEMESTER SCHEME
WITHEFFECT FROM THE ACADEMIC YEAR 2014-15
(AS APPROVED BYTHE BOARD OF STUDIES IN TELUGU ON 17 TH
JUNE 2014)**

(Total working hours 56: syllabus divided into four units, each unit consists of
14 Hours)

Unit- I

Unit-II

Unit –III

Unit-IV

LANGUAGE - TELUGU

Text Books

I SEMESTER B.A/B.Sc/B.Com/BBM/BCA/BHM/B.Sc (FAD)

DEGREE COURSES

1. Poetry :

2. Baka Vadha - Nannaya
3. Matra Sapam - Tikkana Somayaji
4. Vyasuni Kopam - Srinathudu
5. Govyaghra Samvadham - Ananthama thyudu

2. Prose:

1. Telugu Samethalu - Nayani Krishna Kumari
2. Kannu - Appajodu Venkata Subbaiah
3. Vemana - G.V. Krishna Rao
4. Kavivabhiruchulu Pratavi :- Krothavi - Rayaprolu Subbarao

3. Grammar :

1. Telugu Sandhulu
2. Prosody

4. Alankaras

Text Books

II SEMESTER B.A/B.Sc/B.com/BBM/BCA/BHM/B.Sc (FAD)

DEGREE COURSES

Poetry :

1. Gajendra Moksham - Pothana
2. Indeevarakshudu - Allasani Pedhana
3. Natkeerudu - Dhoorjati
4. Sita Nivasamu - Kankanti Paparaju

Prose:

1. Maa Vullo Raavi Chethu - Devulapathi Krishan Sastri
2. Naada Sudha Rasama - Rallapathi Ananta Krishna Sarma
3. Nannayya Chinnayyalu - Krotha Satyanarayana Chowdary
4. Reddy Yugama - Mallampalli Somasekhara Sarma

Grammar:

1. Telugu Sandhulu
2. Prosody

4.Alanakaras

Text Books

III SEMESTER B.A/B.Sc/B.com/BBM/BCA/BHM/B.Sc (FAD)

DEGREE COURSES

1. Poetry:

- 1.Desabhakti - Gurajada Apparao
2. Govu - Gurram Joshma
- 3.Madhava Varma - Viswanatha Satyanarayana
4. Debbathinna Ledi - Kodali Subba Rao
5. Desam mundadugu Veyali - Dr. C.Narayana reddy

2.Drama:

- Varavikrayamu - Kallakuri Narayana Rao

3. **Translation:** - Introduction to Translation and few exercises from English to Telugu and Telugu to English

- 4.General Composition : - Essay Writing& Comprehension exercises

Text Books

IV SEMESTER B.A/B.Sc/B.com/BBM/B.Sc (FAD)) DEGREE COURSE

1. Modern Poetry

- | | |
|----------------------|-------------------------------------|
| 1. Prithivi Prasamsa | - Abburi Ramakrishana Rao |
| 2. Mahandhrodayam | - Dasavathi Rangachary |
| 3. Prarthana | - Devarakonda Bala Gangadhara Tilak |
| 4. Aaripothuuna | - Kundurthi Anjaneyulu |
| 5. Sarachandrika | - Sri Sri |

Short Stories:

- | | |
|--------------------------|-----------------------------------|
| 1. Mamakaaram | - Tripuranemi Gopichand |
| 2. Marrineeda | - Mallethegaa - Narla Chiranjeevi |
| 3. Daaba I llu | - Malathi Chandur |
| 4. Aadavalla Antharangam | - Madhuranthakam Rajaram |
| 5. Krisha bhiksha | - Kolakaluri Enoch |

B.A Optional Telugu

I Semester

Paper –I

Classical Poetry:

1. Damayanthi : Svayamvaramu- Nannaya Mahabharathamu- Aranyaparvama
2. Chiruthondanamb: bhkti – Srinathudu Haravilasamu

History of Telugu Literature:

3. Prangnannaya Yugam & Nannaya Yugam
4. Siva kavi: Yugam

Books for Reference:

1. Andhra Vargmaya Charitra -D.Venkatavadhani
2. Telugu Sahitya Sameeksha – Vo-I& II- G-Nagaiah
3. Andhra Sahitya Charitra- Dwara Sastri

II Semester

Paper –II

Classical Poetry

1. Vamana Charitra- Bammaera Pothana
2. Subhadra Parinayamu (Vijaya Vilasamu) – Chemakuri Venkata Kavi

History of Telugu Literature:

3. Sreenatha yugam

Books for Reference:

1. Andhra Vargmaya Charitra -D.Venkatavadhani
2. Telugu Sahitya Sameeksha – Vo-I& II- G-Nagaiah
3. Andhra Sahitya Charitra- Dwara Sastri

III Semester

Paper –III

1. Modern Poetry:

1. Firadousi- Gurram Joshna

2. History of Literature

Prabandha Yugam & Srikrishnaduramaalu

3. Pedhana, Nandi thimmana, Dhurjati

4. Dakshinandhra Yugamu & Molla

Books for Reference:

1. Andhra Vargmaya Charitra -D.Venkatavadhani
2. Telugu Sahitya Sameeksha – Vo-I& II- G-Nagaiah
3. Andhra Sahitya Charitra- Dwara Sastri

IV Semester

1. Drama
2. Svapana Vasaradatha- Potluri Narayanadas
3. Natakalu,Navalu
4. Janapada Sahityam

Books for Reference:

1. Andhra Vargmaya Charitra -D.Venkatavadhani
2. Telugu Sahitya Sameeksha – Vo-I& II- G-Nagaiiah
3. Andhra Sahitya Charitra- Dwara Sastri

V Semester

Paper –V

History of Telugu Lnuage:

1. Prasthavika Prakaranamau
2. Sidhanta Prakaranamu
3. Uthpathi Prakavanamu
4. Artha & Charitraka Prakaranamulu

Books for reference :

1. Telugu Bhasha Charitra - Telugu Academy

VI Semester

Cultural History of Andhras:

1. Andhrula Charitra
2. Andhrula Samskruti
3. Vijayanagara Yugama
4. Vijayanagara Sahityamu

Books for Reference :

1. Andra Samskruthi Charithra –Etukuri Balarama Muruthy

Paper –VII

Grammar :

1. Balavyakarana Pramkhyata
2. Sanjna Parichedamu
3. Sandhi Parichedamu
4. Samasa Parichedamu

Books for Reference :

1. Bala Vyakaranamu- Vantharam Ramakrishna Rao

VII Semester

Prosody:

1. Sanjna, Jathi, Upajathi, yathi & Prasa.

Poetics:

2. Upama, Uthpreksha, Sandeha, Drushtanthamu
3. _Nidarsana, Tylyagogitha, Samasakthi,Slesha
4. Vyajasthisthi, Vishama, Arthanthara nyasamu, Kovyalingamu.

Books for Reference:

1. Snlakshana saramu
2. Chandraloka Samunmeshamu- Sphoorti Sri

B.A. Optional Telugu

I Semester

Paper – I : Classical Poetry & History of Telugu Literature

1. Multiple Choice from Poetry & History of Telugu Literature	10/10	1x10	10
2. Samagra Vyakhya	1/2	1x15	15
3. Reference to the Context from Classical Poetry	4/6	4x5	20
4. Essay Type Questions from Classical Poetry	2/3	2x10	20
5. Essay type Questions from History of Telugu Literature	2/3	2x10	20
6. Authors /Poets	3/5	3x5	15
Total			<u>100</u>
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A. Optional Telugu

II Semester

Paper – II : Classical Poetry & History of Telugu Literature

1. Multiple Choice from Poetry & History of Telugu Literature	10/10	1x10	10
2. Samagra Vyakhya	1/2	1x15	15
3.Reference to the Context from Classical Poetry	4/6	4x5	20
4.Essay Type Questions from Classical Poetry	2/3	2x10	20
5.Essay type Questions from History of Telugu Literature	2/3	2x10	20
6.Authors /Poets	3/5	3x5	15
Total			<u>100</u>
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A. Optional Telugu

III Semester

Papers –III : Modern Poetry & History of Telugu Literature

1. Multiple Choice from Modern Poetry & History of Telugu Literature	10/10	1x10	10
2. Reference to the Context from Modern Poetry	4/6	4x5	20
3. Essay Type Questions from Modern Poetry	2/3	2x10	20
4. Essay type Questions from History of Telugu Literature	2/3	2x10	20
5. Short type Questions from History of Telugu Literature	3/5	3x5	15
6. Authors /Poets	3/5	3x5	15
Total			100
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A. Optional Telugu

IV Semester

Paper –IV : Drama & History of Telugu Literature

1. Multiple Choice from Drama & History of Telugu Literature	10/10	1x10	10
2. Reference to the Context from Drama	4/6	4x5	20
3. Essay Type Questions from Drama	2/3	2x10	20
4. Essay type Questions from History of Telugu Literature	2/3	2x10	20
5. Short type Questions from Drama & History of Telugu Literature	3/5	3x5	15
6. Authors	3/5	3x5	15
Total			100
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A. Optional Telugu

V Semester

Paper V – History of Telugu Language

1. Multiple Choice from History of Telugu Language	10/10	1x10	10
2 . Essay Type Questions	3/5	3x15	45
3 . Short Type Questions	3/5	3x10	30
4. Linguists	3/5	3x5	15
Total			100
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A. Optional Telugu

V Semester

Paper VI – Cultural History of Andhras

1. Multiple Choice Question from Cultural History Andhras of Telugu Language	10/10	1x10	10
2 Essay Type Questions	3/5	3x15	45
3 Short Type Questions	3/5	3x10	30
4. Kings of Vijayanagara	3/5	3x5	15
Total			100
Internal Assessment			<u>50</u>
Total			150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A Optional Telugu

VI Semester

VII - Paper: Grammar

1.	Multiple Choice Questions	10/10	1x10	10
2	Essay Type Question from Balavyakaranamu	1/2	1x10	10
3	Sutra Vyakhyanam from Sandhi Parichedamu	3/5	3x5	15
4.	Rupa Sadhanamu from Sandhi Parichedamu	3/5	3x4	12
5	Sutra Vyakhyanam from Samasa Parichedamu	3/5	3x5	15
6	Rupa Sadhanamu from Samasa Parichedamu	2/3	2x3	06
7	Paribhashaka Padamulu	8/10	8x4	32
			Total	100
			Internal Assessment	<u>50</u>
			Total	150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

B.A Optional Telugu

VI Semester

VIII Paper: PROSODY & POETICS

2.	Multiple Choice Questions from Prosody & Poetics	10/10	1x10	10
2	Essay Type Question from Prosody	3/5	3x10	30
3	Essay Type Question from Poetics	3/5	3x10	30
4.	Short type Questions from Prosody	3/5	3x5	15
5	Short Type Question from Poetics	3/5	3x5	15
			Total	100
			Internal Assessment	<u>50</u>
			Total	150

Break up of Internal Assessment marks :

1. Class Test : 20
2. Assignment : 10
3. Attendance : 10
4. Seminar : 10

Total : 50

Scheme of Examination

I SEMESTER B.A/B.Sc/B.Com/BBM/BCA/BHM/B.Sc (FAD)

DEGREE COURSES

Papers I: Classical Poetry , Prose & Grammar

Division of Marks

Teaching hours per week - 4

Credits = 2

Theory 70+ Internal Assessment 30=100

Sl.No	Content of the paper	Choices	Marks	Total marks
1.	Multiple Choice questions from Poetry & Prose	10/10	10x1	10
2.	Annotations from Poetry & Prose	3/5	3x4	12
3.	Essay Type questions from Poetry & Prose (Internal choice both in Poetry & Prose)	2/4	2x8	16
4.	Short type questions from Poetry & Prose (Internal choice both in Poetry & Prose)	4/6	4x3	12
5.	Appreciation of the Poem	1/2	1x5	05
6.	Grammar			
	a) Sandhulu	3/5	3x3	09
	b) Prosody	1/2	1x3	03
	c) Alankaramulu	1/2	1x3	03
	Internal Assessment			70+ 30
			Total	100

Break up of Internal Assessment marks:

1.Class Test :10

2.Assignment : 10

3.Attendance : 10

Total :30

Scheme of Examination

II SEMESTER B.A/B.Sc/B.Com/BBM/BCA/BHM/B.Sc (FAD)

DEGREE COURSES

Papers I & II : Classical Poetry , Prose & Grammar

Division of Marks

Teaching hours per week - 4

Credits = 2

Theory 70+ Internal Assessment 30=100

Sl.No	Content of the paper	Choices	Marks	Total marks
1.	Multiple Choice questions from Poetry & Prose	10/10	10x1	10
2.	Annotations from Poetry & Prose	3/5	3x4	12
3.	Essay Type questions from Poetry & Prose (Internal choice both in Poetry & Prose)	2/4	2x8	16
4.	Short type questions from Poetry & Prose (Internal choice both in Poetry & Prose)	4/6	4x3	12
5.	Appreciation of the Poem	1/2	1x5	05
6.	Grammar			
	a) Sandhulu	3/5	3x3	09
	b) Prosody	1/2	1x3	03
	c) Alankaramulu	1/2	1x3	03
	Internal Assessment			70+ 30
			Total	100

Break up of Internal Assessment marks:

1.Class Test :10

2.Assignment : 10

3.Attendance : 10

Total :30

Scheme of Examination

III SEMESTER B.A/B.Sc/B.Com/BBM/BCA/BHM/B.Sc (FAD) DEGREE COURSES

PAPER – III : MODERN POETRY , DRAMA , COMPOSITION & TRANSLATION

Division of Marks

Teaching hours per week - 4

Credits = 2

Theory 70+ Internal Assessment 30=100

Sl.No	Content of the paper	Choices	Marks	Total marks
1.	Multiple Choice questions from Poetry & Drama	10/10	10/1	10
2.	Annotations from Poetry & Drama	3/5	3x4	12
3.	Essay Type questions from Poetry & Drama (Internal choice both in Poetry & Drama)	2/4	2x10	20
4.	Short type questions from Poetry & Drama (Internal choice both in Poetry & Drama)	4/6	4x3	12
5.	Nataka Lakshanalu	1/2	1x5	5
6.	General Essay	1/3	1x6	6
7.	Translation (English to Telugu)	1/1	1x5	5
	Internal Assessment			70+ 30
			Total	100

Break up of Internal Assessment marks:

1.Class Test :10

2.Assignment : 10

3.Attendance : 10

Total :30

Scheme of Examination

IV SEMESTER B.A/B.Sc/B.Com/BBM/BCA/BHM/B.Sc (FAD) DEGREE COURSES

PAPER – IV : MODERN POETRY , SHORT STORIES, COMPOSITION & TRANSLATION

Division of Marks

Teaching hours per week - 4

Credits = 2

Theory 70+ Internal Assessment 30=100

Sl.No	Content of the paper	Choices	Marks	Total marks
1.	Multiple Choice questions from Poetry & Short Stories	10/10	10x1	10
2.	Annotations from Poetry	3/5	3x4	12
3.	Essay Type Questions from Poetry & Short stories (Internal choice both in Poetry &Short Stories)	2/4	2x10	20
4.	Short type questions from Poetry & Short Stories (Internal choice both in Poetry &Short Stories)	4/6	4x3	12
5.	Authors & Poets	2/3	2x2.5	5
6.	General Essay	1/3	1x6	6
7.	Translation (English to Telugu)	1/1	1x5	5
	Internal Assessment			70+ 30
			Total	100

Break up of Internal Assessment marks:

1.Class Test :10

2.Assignment : 10

3.Attendance : 10

Total :30

Additional English
Syllabus
Semester I
Text: Foot prints I
Contents

Part I: Love and Marriage

1. Is Love an Art? - *Erich Fromm*
2. Love Vs Arranged: Pyar Kiya To Darna Kya - *Shobhaa De*
3. “Falling” in Love ... Failing in Love
 - B. The Winner Takes It All - *Benny Anderson & Bjorn Ulvaeus*
4. The Lover - *Harriet Jacobs*
5. Sonnet CXXX - *William Shakespeare*

Part II: Education

- Education: An Introduction (Human Mind) - *Sri Aurobindo & The Mother*
1. In - Formal Education
 - A. In Sahyadri Hills, A Lesson in Humility - *Sudha Murthy*
 - B. My Young Son Asks Me... - *Bertolt Brecht*
 2. The Exercise Book - *Rabindranath Tagore*
 3. Abraham Lincoln’s Letter to His Son’s Teacher - *Abraham Lincoln*

Part III: Travel and Tourism

1. Tourists are Coming - *Art Buchwald*
2. Stories in Stone - *Amitav Ghosh*
3. A Journey through Africa and America
 - A. Africa - *Maya Angelou*
 - B. America - *Maya Angelou*

Semester II
Text: Foot prints II
Contents

Part I: Storytellers: R.K. Narayan and Raja Rao

Story tellers: An Introduction

1. A Horse and Two Goats - *R.K. Narayan*
2. The Cow of the Barricades - *Raja Rao*

Part II: A Wall is just a Wall

A Wall is just a Wall: An Introduction

1. Building a Wall
2. Mending Wall - *Robert Frost*
3. A. The Berlin Wall
B. A Wall is Just a Wall
4. 11/9 versus 9/11- *Thomas Friedman*

Part III: A Voice of Her Own

A Voice of Her Own: An Introduction

1. A. Girl- *Jamaica Kincaid*
B. To Mother- *Usha Navaratnaram*
2. A Ring to Me is Bondage- *Mina Asadi*
3. The Beauty Industry- *Aldous Huxley*
4. I am an Ordinary Man- *Alan Jay Lerner*
Why I Want a Wife- *Judy Brady* (Supplementary Reading)

Semester III

Text: Foot prints III

Contents

SECTION I: Stories

1. A Ghost Story - *Mark Twain*
2. Bhuto - *Satyajit Ray*

3. The Adventure of the Speckled Band - *Sir Arthur Conan Doyle*

SECTION II: Speeches

4. On Humanity and Freedom - *Charlie Chaplin*

5. A Whisper of Aids - *Mary Fisher*

6. An Inconvenient truth - *AL Gore*

Semester IV

Text: Foot prints IV

Contents

Part I: Relationships

1. The Boor - *Anton Chekhov*

Part II: Man and Medicine

1. The Doctor in the 21st century - *P.K. Sethi*

2. How to be a Doctor - *Stephen Leacock*

Part III: Modern Challenges

1. The Paradox of our Times - *His Holiness The Dalai Lama*

2. An Executive's Dilemma - *Robert .S. Herman*

Part IV: Our Environment

1. Water: The Elixir Of Life - *Sir C.V. Raman*

Examination pattern

Internal assessment : 30 marks Semester examination : 70 marks Total : 100 marks

Question Paper Pattern

Semester – 1

Paper -1

I Language Exercises

(2X5=10Marks)

A. Correction of errors in areas like

- Voice
- Usage
- Articles
- Prepositions
- Tenses

B. Language in Context

(1X5=5 Marks)

Areas for testing the unseen passages:

- Vocabulary exercises- synonyms, antonyms, meanings, collocations.
- Using words as nouns, verbs, adjectives by constructing sentences.

C. Slogans or Captions

(5 Marks)

II. Questions Based on the Text

A. Factual Questions: 5 questions to be answered out of 8

(2X5=10 Marks)

B. Descriptive Questions: 4 questions to be answered out of 7

(5X4=20 Marks)

C. Analytical, comparative and theme based, intra- textual questions:

2 questions to be answered out of 3

(10X2=20Marks)

Semester II

Paper-II

I. Language Exercises

A. Correction of errors in areas like :(2x5= 10 marks)

- Degree of comparison

- Usage- Super ordinate-hyponyms
- Prefix & Suffix
- Idioms
- Synonyms

B. Language in Context

Brochure or Leaflet (1x5=5 marks)

C. Invitations (5 marks)

II. Questions Based on the Text

A. Factual questions: 5 Questions to be answered out of 8 (2x5=10 marks)

B. Descriptive questions: 4 Questions to be answered out of 7 (5x4=20 marks)

C. Analytical, comparative and theme based, intra textual questions: (10x2=20marks)
2 questions to be answered out of 3

Semester III

Paper III

I. Writing Exercisers

- Write a story with mystery as the central idea: Choice between two.(1x10= 10 marks)
- Writing a speech on a given occasion: Choice between two. (1x10=10 marks)

II. Questions Based on the Text

A. Factual questions: 5 Questions to be answered out of 8 (5x2=10 marks)

B. Descriptive questions: 4 Questions to be answered out of 7 (5x4=20 marks)

C. Analytical, comparative and theme based intra- textual questions: (10x2 =20 marks)
2 questions to be answered out of 3.

Semester IV

Paper-IV

I. Writing Exercises

A. Writing a dialogue (One out of two topics) (1x10= 10 marks)

B. Writing an essay (One out of two topics) (1x10=10 marks)

II. Questions based on the Texts

A. Factual questions: 5 Questions to be answered out of 8 (5x2=10 marks)

B. Descriptive questions: 4 Questions to be answered out of 7 (5x4=20 marks)

C. Analytical, comparative and theme based, intra textual questions: (10x2=20 marks)

2 questions to be answered out of 3

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

Language English

1st Semester B A/B Sc/ B Com/ BBM/BCA

Question Paper Pattern for 1st Semester B A/B Sc/ B Com/ BBM/BCA and all other programmes where the text book *Experience and Expression* are prescribed to conform to the changed CBCS adopted by Bangalore University(70[Semester Examination + 30[IA])

Part A – Literary Component: 40 Marks

Question No I: The student will be required to answer any five out of seven:	5x2=10
Question No II: The student will be required to answer any three out of five:	3x5=15
Question No III: The student will be required to answer any one out of three:	1x10=10
Question No IV: Do as Directed	5 Marks

Part B – Workbook Component: 30 Marks

Question No V: (On Remedial Grammar)	7 Marks
Question No VI (Reading Comprehension)	5 marks
Question No VII (Paragraph Writing – Choice between two exercises)	5 Marks
Question No VIII (Note Making)	05 Marks
Question IX (Do as Directed):	08 Marks

2nd Semester B A/BSc/ BCom/ BBM/BCA

Question Paper Pattern for 2nd Semester B A/BSc/ BCom/ BBM/BCA and all other programmes where the text books *Experience* and *Expression* are prescribed to conform to the changed CBCS adopted by Bangalore University (70[Semester Examination] + 30[IA])

Part A – Literary Component: 40 Marks

Question No I: The student will be required to answer any five out of seven:	5x2=10
Question No II: The student will be required to answer any three out of five:	3x5=15
Question No III: The student will be required to answer any one out of three:	1x10=10
Question No IV: Do as Directed	5 Marks

Part B – Workbook Component: 30 Marks

Question No V: (On Remedial Grammar)	7 Marks
Question No VI (Reading Comprehension)	5 marks
Question No VII (Choice between two paragraphs)	5 Marks
Question No VIII (Note Making)	5 Marks
Question IX (Do as Directed):	8 Marks

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

3rd Semester B A/BSc/ BCA

Question Paper Pattern for 3rd Semester B A/BSc/ BCA and all other programmes (coming under the Faculties of Arts & Science) where the text books *Experience* and *Expression* are prescribed to conform to the changed CBCS adopted by Bangalore University(70[Semester Examination] + 30[IA])

Part A – Course Book (Literary Component): 40 Marks

Question No I: The student will be required to answer any five out of seven:	5x2=10
Question No II: The student will be required to answer any four out of six:	4x5=20
Question No III: The student will be required to answer any one out of three:	1x10=10

Part B – Workbook Component: 30 Marks

Question No IV: RTI (Two questions to be set, out which the student will be required to answer one)	5 Marks
Question No V: (Combine the given sets of sentences to frame shorter and more effective sentences)	5 Marks
Question No VI: (Reading Comprehension)	5 marks

Question No VII: Report (Two questions to be set giving students a choice between two types of reports) 10 Marks

Question No VIII: Two questions to be set giving students a choice between a media transfer exercise and a letter 5 Marks

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

3rd Semester B Com

In the wake of the University having revising the teaching hours/week for General English from 2 to 3 and also revising the marks from 50 to 70, the revised syllabus and Question Paper Pattern for 3rd Sem B Com and all programmes coming under the Faculty of Commerce is as follows:

The Syllabus will consist of two components:

Part A – Course Book - *Experience* (the text prescribed for the 3rd Semester B Com/other Programmes coming under the Faculty of Commerce during the academic year 2013-14)

Part B – *Expression* – the same workbook prescribed for 3rd Semester BA/B Sc (all programmes coming under the Faculties of Arts and Science). **However, only two units from the workbook i.e. Writing Skills (Report Writing & Letter Writing) and Media Transfer are prescribed.**

Question Paper Pattern:

Part A – Course Book (Literary Component): 50 Marks

Question No I: 2 mark questions: the student will be required to answer any five questions out of seven in one or two sentences each 5x2=10 marks

Question No II: 5 mark questions: the student will be required to answer any four questions out of six in about 80-100 words each 4x5=20 marks

Question No III: 10 mark questions: the student will be required to answer any two out of three questions in a page and a half each 2x10= marks

Part B – Workbook Component: 20 Marks

Question No IV: On Report Writing	10 marks
Question no V: Letter Writing	05 marks
Question no VI: Media Transfer	05 marks

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

4th Semester B A/BSc/ BCA

Question Paper Pattern for 4th Semester B A/BSc/ BCA and all other programmes (coming under the Faculty of Arts & Science) where the text books *Experience* and *Expression* are prescribed to conform to the changed CBCS adopted by Bangalore University(70[Semester Examination + 30[IA]])

Section A – Drama: 20 Marks

Text : Vijay Tendulkar : *Silence! The Court is in Session*

Question No I: (5 Mark Question) The student will be required to answer any two out of three: 2x5=10

Question No II:(10 Mark Question) The student will be required to answer any one out of two: 1x10=10

Section B – Poetry: 20 Marks

Question No III: (5 Mark Question) The student will be required to answer any two out of three: 2x5=10

Question No IV:(10 Mark Question) The student will be required to answer any one out of two: 1x10=10

Section C – Workbook Component: 30 Marks

Question No V: 1 mark question (Answer the given questions in two or three sentences or do as directed) 5 Marks

Question No VI: Dialogue Writing (based on a situation) 5 Marks

Question No VII: Two questions to be set, one on Presentation and one on Project Report writing, of which the student will be

required answer any one (i.e choice between Presentation & Report)

10 Marks

Question No VIII: Letter Writing (Application Cover letter and Resume drafting)

5 +5=10 Marks

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

4th Semester B Com

In the wake of the University having raised the teaching hours/week for General English from 2 to 3 and also raising the marks from 50 to 70, the revised syllabus and Question Paper Pattern for 3rd Sem B Com and all programmes coming under the Faculty of Commerce is as follows:

The Syllabus will consist of three components:

Section A – Literary Component

- Drama (Mahesh Dattani's *Where There is a Will*)
- *Experience* (the text prescribed for the 4th Semester B Com/other Programmes coming under the Faculty of Commerce during the academic year 2013-14)

Section B – Workbook Component

Expression – the same workbook prescribed for 4th Semester BA/B Sc (all programmes coming under the Faculties of Arts and Science). However, only two units (Unit I and Unit II) from the workbook i.e. Dialogue Writing/ Narrating the Past Events, Project Report and Referencing Skills are prescribed.

Question Paper Pattern

Section A

Literary Component–50 Marks

Part 1 (Drama) – 25 marks

Question No I: 5 mark questions: the student will be required to answer any three questions out of five in a paragraph of about 80-100 words each

5x3=15 marks

Question No II: 10 mark questions: the student will be required to answer any one out of two questions in about 200 to 250 each 1x10=10 marks

Part 2 (Poetry) – 25 marks

Question No III: 5 mark questions: the student will be required to answer any three questions out of five in a paragraph of about 80-100 words each 5x3=15 marks

Question No IV: 10 mark questions: the student will be required to answer any one out of two questions in about 200 to 250 each 2x10=10 marks

**Section B
Workbook Component: 20 Marks**

Question No V: Choice between Dialogue writing and Narrating the Past Events 05 marks

Question no VI: Project Report 10 marks

Question no VII: Referencing Skills 05 marks

Guidelines for IA marking: 30 marks

Two tests: 10+10 =20 marks

Attendance: 5 marks

Seminar/Assignment: 5 marks

ಪಠ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)

ಬಿ.ಎ/ ಬಿ.ಎಚ್.ಎಂ/ಬಿ.ಎಸ್.ಡಬ್ಲ್ಯು (ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ-2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ನೆಲಕ್ಕೂರೊಳಂ ಪಂಥಮುಂಟೇ - ಪಂಪ
೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ, ಅಮುಗೆ ರಾಯಮ್ಮ
೩. ದೇವರು ರುಜು ಮಾಡಿದನು - ಕುವೆಂಪು
೪. ಕವನ ಹುಟ್ಟುವ ಸಮಯ - ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ತಿರುಕಣ್ಣನ ಮತದಾನ - ನಿರಂಜನ
೨. ಪಂಜೊಳ್ಳಿ ಪಿಶಾಚಿಯ ಸವಾಲು - ಕೆ.ಪಿ. ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
೩. ಡಾಂಬರು ಬಂದುದು - ದೇವನೂರು ಮಹಾದೇವ

III. ಜಾನಪದ

೧. ತನ್ನನ್ನು ತಾನು ವರಿಸಿದ ರಾಜಕುಮಾರ - ಸಂಗ್ರಹ: ಎ.ಕೆ. ರಾಮಾನುಜನ್
೨. ಕೆಂಪೇಗೌಡರ ಲಾವಣಿ - ಸಂಗ್ರಹ: ಹೆಚ್.ಎಲ್. ನಾಗೇಗೌಡರು
೩. ಆದಿವಾಸಿ ಜಾನಪದ - ಜಿ.ಶಂ. ಪರಮಶಿವಯ್ಯ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಮಾನವತಾವಾದ ಎದುರಿಸುತ್ತಿರುವ ಬಿಕ್ಕಟ್ಟುಗಳು (ಭಾಗಗಳು) - ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ
೨. ಬೆವರಿನ ಮನುಷ್ಯ ಡಾ. ರಾಜಕುಮಾರ್ - ಪ್ರೊ. ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ.
೩. ಕನ್ನಡವೇ ನನ್ನ ಧರ್ಮ - ಜಯದೇವಿ ತಾಯಿ ಲಿಗಾಡೆ

ಪತ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)
ಬಿ.ಎಸ್ಸಿ/ಎಂ.ಎಸ್ಸಿ ಐದು ವರ್ಷಗಳ ಸಂಯೋಜಿತ ಪದವಿ (ಮೂರು ವರ್ಷಗಳ
ಅವಧಿಗೆ-2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ಸಾಹಸಧನಂ ದುರೋಧನಂ-ರನ್ನ
೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಅಲ್ಲಮ ಪ್ರಭು, ಅಕ್ಕಮಹಾದೇವಿ.
೩. ಚಿಗರಿಗಂಗಳ ಚೆಲುವಿ - ದ.ರಾ. ಬೇಂದ್ರೆ
೪. ಕುರಿಗಳ್, ಸಾರ್, ಕುರಿಗಳು - ಕೆ.ಎಸ್.ನಿಸಾರ್ ಅಹಮದ್.

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ಮೋಚಿ - ಭಾರತೀಪ್ರಿಯ
೨. ನಿರಾಕರಣೆ - ವೀಣಾ ಶಾಂತೇಶ್ವರ
೩. ಕೂರ್ಮಾವತಾರ - ಕುಂ. ವೀರಭದ್ರಪ್ಪ

III. ಜಾನಪದ

೧. ನಾಲ್ವರು ಜಾಣರು
೨. ಮೈಸೂರು ದೊರೆ ಕಥೆ
೩. ಬೆಳ್ಳಿಂಗಪ್ಪನ ಪೂಜೆ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಒಂದು ಬೈಸಿಕಲ್ ಬೆಳಗ್ಗೆ - ಪಿ.ಲಂಕೇಶ್
೨. ಮುಸ್ಲಿಂ ಹುಡುಗಿ ಶಾಲೆ ಕಲಿತದ್ದು - ಸಾರಾ ಅಬೂಬ್‌ಕರ್
೩. ಇಲ್ಲಿ ಯಾರೂ ಮುಖ್ಯರಲ್ಲ - ಯಾರೂ ಅಮುಖ್ಯರಲ್ಲ - ಕೃಪಾಕರ, ಸೇನಾನಿ

ಪತ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)
ಬಿ.ಎಸ್ಸಿ ಪ್ಯಾಡ್ / ಐ.ಡಿ.ಡಿ. (ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ 2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ಸೋದುದು ಕೊಳಗೊಂಡ ಗರ್ವರಸಂ - ಪಂಪ
೨. ವಚನಗಳು - ದೇವರ ದಾಸಿಮಯ್ಯ, ಅಲ್ಲಮಪ್ರಭು, ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ,
೩. ಬಾರೋ ಸಾಧನಕೇರಿಗೆ - ಅಂಬಿಕಾತನಯದತ್ತ
೪. ಪ್ರೀತಿ ಇಲ್ಲದ ಮೇಲೆ - ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ಕೊನೆಯ ಗಿರಾಕಿ - ನಿರಂಜನ
೨. ತಾಯಿ - ಯು. ಆರ್. ಅನಂತಮೂರ್ತಿ
೩. ಕುಬುಸ - ಕುಂ. ವೀರಭದ್ರಪ್ಪ

III. ಜಾನಪದ

೧. ಹೂ ಬಿಡುವ ಮರ - ಸಂಗ್ರಹ ಎ.ಕೆ.ರಾಮಾನುಜನ್.
೨. ಸಂಗೊಳ್ಳಿ ರಾಯಣ್ಣನ ದಂಗೆ -
೩. ಮಾದಪ್ಪನ ಕತೆಯ ಸುತ್ತ ಮುತ್ತ - ಓ.ಎಲ್. ನಾಗಭೂಷಣ ಸ್ವಾಮಿ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಹೆಣ್ಣಿನ ಸ್ಥಾನ ಮಾನ - ಶರಚ್ಚಂದ್ರ ಚಟ್ಟೋಪಾಧ್ಯಾಯ
೨. ಇಂಡಿಯಾದ ದೇವ ಪುರುಷರು- ಡಾ.ಅಬ್ರಹಾಂ ಟಿ.ಕೋವೂರ್ ಅನುವಾದ ಮಾಯಿಗೌಡ
೩. ಮೊಲೆ ಮೂಡಿ ಬಂದರೆ ಹೆಣ್ಣೆಂಬರು - ಡಾ. ಎಚ್. ಎಸ್. ಶ್ರೀಮತಿ

ಪತ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)

ಬಿ.ಸಿ.ಎ (ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ 2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ಬಿದಿಯ ಮಿಾಱುಗುಮೆ ಪೆಱರ ಪೆಱ್ಱುಪದೇಶಂ - ನಾಗಚಂದ್ರ
೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ, ಅಂಬಿಗರ ಚೌಡಯ್ಯ.
೩. ಅನ್ನಯಜ್ಞ - ದ.ರಾ. ಬೇಂದ್ರೆ
೪. ಸಂಪರ್ಕ - ಗಂಗಾಧರ ಚಿತ್ತಾಲ

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ಪರೀಕ್ಷಿತ - ಚದುರಂಗ
೨. ಮಾಯಾಮೃಗ - ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
೩. ಪಾರಿವಾಳದ ರೆಕ್ಕೆಗಳ ಹಾಡು - ಭಾನು ಮುಷ್ಠಾಕ್

III. ಜಾನಪದ

೧. ಹೂ ಕೊಟ್ಟ ಚದುರೆ - ಜನಪದ ಕತೆ
೨. ಕೊಣವೇಗೌಡ - ಲಾವಣಿ
೩. ಜನಪದ ಸಾಹಿತ್ಯದ ಪುನರುಜ್ಜೀವನ - ಎಚ್.ಎಲ್. ನಾಗೇಗೌಡ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಗುಳೆ ಏಳುತ್ತಿರುವ ಗ್ರಾಮೀಣ ಶರಣರು - ಪ್ರಸನ್ನ
೨. ಕೋಟಿ ಮಿದುಳುಗಳ ಬೆಸೆಯುವ ಕೆಲಸ - ನಾಗೇಶ ಹೆಗಡೆ
೩. ಈ ಗೋಡೆ ಮೇಲೆ ಭಯಂಕರ ಬರಹ ಬೇಡ - ಡಾ. ಆರ್. ಪೂರ್ಣಿಮ

ಪತ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)
ಬಿ.ಬಿ.ಎ (ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ-2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ಸಂಧಿಮಾಱ್ಪುದುತ್ತಮ ಪಕ್ಷಂ - ರನ್ನ
೨. ವಚನಗಳು - ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ
೩. ತುಂಗಭದ್ರೆ - ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ
೪. ವರ್ಧಮಾನ - ಎಂ. ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ನಾಲ್ಕು ಮೊಳ ಭೂಮಿ - ಚದುರಂಗ
೨. ಅಂಕ - ಬೊಳುವಾರು ಮಹಮದ್ ಕುಂಞ
೩. ಅಕ್ಕು - ವೈದೇಹಿ

III. ಜಾನಪದ

೧. ಘಾಟಿ ಸೊಸೆ - ಜನಪದ ಕತೆ
೨. ಹಲಗಲಿಯ ಬೇಡರು - [ಲಾವಣಿ]
೩. ಒಂದು ಅಪೂರ್ವ ಕಥನಗೀತೆ - ಗರತಿ ಗಂಗವ್ವ ಸಿ.ಪಿ.ಕೆ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ನಮಗೆ ಬೇಕಾಗಿರುವ ಇಂಗ್ಲಿಷ್ - ಕುವೆಂಪು
೨. ವೃತ್ತ ಪತ್ರಿಕಾ ಸ್ವಾತಂತ್ರ್ಯ - ಡಿ.ವಿ.ಜಿ.
೩. ಇದೆಲ್ಲ ಹೇಗೆ ಶುರುವಾಯಿತು - ಮೂಲ: ರೋಸಾಪಾರ್ಕ್, ಅನುವಾದ: ಎಂ.ಆರ್. ಕಮಲ

ಪತ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)
ಬಿಕಾಂ (ಐದು ವರ್ಷಗಳ ಸಂಯೋಜಿತ ಎಂ.ಎ), (ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ
2017-2020)

ಅಂಕಗಳು: 70

I. ಕಾವ್ಯ ಭಾಗ

೧. ಕುರುಕುಳಾಂತಕಂ ಗಳಿತಕೋಪನೆ [ಈ] ಭೀಮಂ - ರನ್ನ
೨. ವಚನಗಳು - ಜೇಡರ ದಾಸಿಮಯ್ಯ, ಬಸವಣ್ಣ, ನೀಲಮ್ಮ, ಮುಕ್ತಾಯಕ್ಕ
೩. ದೇವರು - ಪೂಜಾರಿ - ಕುವೆಂಪು
೪. ಗಂಗಾಮಾಯಿ - ಡಾ. ಚಂದ್ರಶೇಖರ ಕಂಬಾರ

II. ಕಥಾ ಸಾಹಿತ್ಯ

೧. ಸೆರೆ - ಯಶವಂತ ಚಿತ್ತಾಲ
೨. ರೊಟ್ಟಿ - ಪಿ.ಲಂಕೇಶ್
೩. ಜೀತ - ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ

III. ಜಾನಪದ

೧. ಧೀರಕುಮಾರ - ಜನಪದ ಕತೆ
೨. ವೀರರಾಣಿ ಚೆನ್ನಮ್ಮ - [ಲಾವಣಿ] ಸಂಗ್ರಹ ದೇ.ಜವರೇಗೌಡ
೩. ಪ್ರಾಚೀನ ಕಲೆ ತೊಗಲುಗೊಂಬೆಯಾಟ - ಡಾ.ಡಿ.ಕೆ. ರಾಜೇಂದ್ರ

IV. ಲೇಖನ ವೈವಿಧ್ಯ

೧. ಕನ್ನಡ ಗ್ರಂಥೋದ್ಯಮ - ಶ್ರೀ ಮಾಧವ ಎನ್. ರಟ್ಟೀಹಳ್ಳಿ
೨. ಕನ್ನಡ ಅಂಕಣ ಸಾಹಿತ್ಯ - ಡಾ. ಸದಾನಂದ ಕನವಳ್ಳಿ
೩. ವ್ಯವಹಾರ ಮತ್ತು ನೈತಿಕತೆ - ಡಾ.ಜಿ.ಎನ್.ಮಲ್ಲಿಕಾರ್ಜುನಪ್ಪ.

**ಬಿ.ಎ. ಕನ್ನಡ ಐಚ್ಛಿಕ ಪಠ್ಯ
ಪಠ್ಯಕ್ರಮ (ಮೊದಲನೆ ಸೆಮಿಸ್ಟರ್)**
(ಮೂರು ವರ್ಷಗಳ ಅವಧಿಗೆ 2017-2020)

ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ: ಪರಿಕಲ್ಪನೆಗಳು ಮತ್ತು ಹಳಗನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ.
ಅ. ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಸಾಮಾಜಿಕ, ಸಾಂಸ್ಕೃತಿಕ ಮತ್ತು ಭಾಷಿಕ ನೆಲೆಗಳು. ಸಾಹಿತ್ಯ ಪರಂಪರೆಗಳ ಸ್ವರೂಪ

ಆ. ಶಾಸನಗಳು-ಶಾಸ್ತ್ರಗ್ರಂಥಗಳು-ಸಂಸ್ಕೃತ, ದ್ರಾವಿಡ ಮತ್ತು ಪ್ರಾಕೃತ ಹಿನ್ನೆಲೆ - ಜನಪದ ಸಾಹಿತ್ಯದ ಹಿನ್ನೆಲೆ

ಇ. ಚಂಪೂ ಯುಗ: ಪಂಪನಿಂದ ಹತ್ತೊಂಬತ್ತನೆಯ ಶತಮಾನದವರೆಗೆ. ಗದ್ಯವಿಕಾಸ: ಶಾಸನ ಗದ್ಯ, ವಡ್ಡಾರಾಧನೆ

ಈ. ಹಳಗನ್ನಡ ಸಾಹಿತ್ಯದ ಮುಖ್ಯ ಆಕರಗಳು ಮತ್ತು ಆಕೃತಿಗಳು. ಭಾಷೆ, ಛಂದಸ್ಸು ಮತ್ತು ಕಾವ್ಯತತ್ವಗಳ ಸ್ಥೂಲ ಪರಿಚಯ

೧. ನಡುಗನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ

ಅ. ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜಾನಪದ.

ಆ. ರಗಳೆ, ಷಟ್ಪದಿ, ಸಾಂಗತ್ಯ, ತ್ರಿಪದಿ, ಗದ್ಯ

ಇ. ಈ ಸಾಹಿತ್ಯದ ಆಶಯ-ಆಕೃತಿ-ಕಾವ್ಯತತ್ವ

೨. ಕಾವ್ಯ ಭಾಗಗಳು: ಚಂಪೂ ಮತ್ತು ವಚನ

ಅ. ಪಂಪ: ಶ್ರೀಮತಿ-ವಜ್ರಜಂಘರ ಪ್ರಸಂಗ

ಆ. ವಡ್ಡಾರಾಧನೆ: ಕಾರ್ತಿಕ ಋಷಿಯ ಕಥೆ

ಇ. ರಗಳೆ: ಬೇಡರ ಕಣ್ಣಪ್ಪ ರಗಳೆ

೩. ನಡುಗನ್ನಡ ಕಾವ್ಯಭಾಗಗಳು: ಷಟ್ಪದಿ, ಕುಮಾರರಾಮನ ಸಾಂಗತ್ಯ, ಇತ್ಯಾದಿ

ಅ. ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ-ಆಶಯನಿಷ್ಠ ಆಯ್ಕೆ

ಆ. ರಾಘವಾಂಕ: ಬಿಲ್ಲೇಶ ಬೊಮ್ಮಯ್ಯನ ಕಥೆ

ಇ. ಕುಮಾರವ್ಯಾಸ: ಕಾವ್ಯತತ್ವ

DEPARTMENT OF URDU
BANGALORE UNIVERSITY, BANGALORE
URDU SYLLABUS FOR UNDERGRADUATE COURSES CBCS (CHOICE BASED CREDIT
SYSTEM)- SEMESTER SCHEME WITH EFFECT FROM THE ACADEMIC YEAR 2014-15
(AS APPROVED BY THE BOARD OF STUDIES IN URDU ON 17th JUNE 2014.)

(Total working hours 56 : Syllabus divided into four units, each unit consists of 14 Hours)

Unit –I :Prose (14 hours). Unit –II :Poems (14 hours). Unit-III :Ghazliyath

(14 hours)Unit –IV Non-Detail(14 hours)

2 CREDITS FOR EACH SEMESTER

LANGUAGE URDU

FIRST SEMESTER B.A. DEGREE COURSE

Prose

- | | |
|----------------------------------|------------------------|
| 1. Padhiyegar Beemar | Mushtaq Ahmed Yusufi |
| 2. Masood Marhoom ki Zindadili | Dr. Syed Abid Hussain |
| 3. Bahaduroan kay karnamey | Khawaja Hassan Nizaami |
| 4. Muslmanoan ki Guzishta taleem | Shibli Noamani |
| 5. Kilopatra nay ek moti kholi | Saktif aur Saktif |

Poetry

(a) Nazmein :

- | | |
|---|-----------------------|
| 1. Hazrath Ismail ki viladuth aur Maa
Betay ki Hijrath | Hafeez Jalandhar |
| 2. Naath-e-shareef | Hali |
| 3. Mirza Ghalib | Iqbal |
| 4. Taj Mahal | Saher Ludhyanvi |
| 5. Rubaiyath | Iqbal Amjad aur Akbar |

(b) Ghazlein:

- | | |
|-----------|--------------------|
| 1. Ghazal | Wali |
| 2. Ghazal | Jaan Nisaar Aqther |
| 3. Ghazal | Ahmed faraz |
| 4. Ghazal | Firaq Gorakhpuri |
| 5. Ghazal | Majrooh Sultanpuri |
| 6. Ghazal | Shareyaar |
| 7. Ghazal | Hameed Almaas |
| 8. Ghazal | Nasir Kazimi |

(Non detail Text): Afsanay

- | | |
|--------------------|---------------------|
| 1. Amavaas ki raat | Premchand |
| 2. Aaqri Bus | Krishen Chander |
| 3. Garam Coat | Rajender SinghBedi |
| 4. Mohammed Bhai | Sadath Hassan Manto |
| 5. Name Plate | Tareeq Chattari |

Ahal-e-Qalam ka Taruf

SECOND SEMESTER B.A. DEGREE COURSE

Prose

- | | |
|---------------------------|-------------------------|
| 1. Baghdad ka safar | Sajjad Hyder Eldaram |
| 2. Jigar Muradabadi | Shahid Ahmed Dehlvi |
| 3. Mahmood Iyaz | Khaleel Mamoon |
| 4. Seerathe Hazrath Ummar | Shibli Noumani |
| 5. Khutooth | Ghalib aur Moulana Azad |

Poetry

(a) Nazmein:

- | | |
|---|------------------------|
| 1. Yaarub hai tere zaat ku dono jahan
mein bartari | Nazeer Akbarabadi |
| 2. Marsia –e- Dilli | Maulana Hali |
| 3. Shikwa Urdu ka apne waten say | Talib Qundmeeri |
| 4. O-dees se Aane wale bata | Akhter Sheerani |
| 5. Duwa-e-Aseer | Maulana Md. Ali Jauher |

(b) Gazlein

- | | |
|----------|------------------|
| 1. Gazal | Siraj |
| 2. Gazal | Faani |
| 3. Gazal | Jigar Muradabadi |
| 4. Gazal | Azgar Goundavi |
| 5. Gazal | Hasrath Muhani |
| 6. Gazal | Daag |
| 7. Gazal | Ameer Meenai |
| 8. Gazal | Allamma Iqbal |

(Non detail Text) Afsanay

- | | |
|--------------------------|----------------------|
| 1. Alhamdulillah | Ahmed Nadeem Qazmi |
| 2. Barsoan Ramdhadakey | Moinudeen Jeenabadey |
| 3. Ashab Kahaf ki bedari | Heena ruhi |
| 4. Aaapa | Mumtaz Mufti |
| 5. Aanandi | Gulam abbas |

THIRD SEMESTER B.A. DEGREE COURSE

Prose

- | | |
|--|-------------------|
| 1. Galileo aur Jhuka huwa meenar | Saktif and Saktif |
| 2. Adabi Istelahein | Saleem Shehzaad |
| 3. Mabadiyaat tanqeed | Majnu Gorakhpuri |
| 4. Ummul momanein Hazarath Syeda
Ayesha Bintay Abubakkar Siddiq | B Sheik Ali |
| 5. Neend(Drama) | Shameem Hanfi |

Poetry

(a) Nazmein

- | | |
|----------------------------|-------------------|
| 1. Nath-e-Shareef | Asad Aejaz |
| 2. Sehrul Bayan(Talqees) | Meer Hasan |
| 3. Dilli | Naresh Kumar Shad |
| 4. Garib-ul-watan ka payam | Josh Malhabadi |
| 5. Aaqhri Lamha | Kaifi Azmi |

(b) Gazalein

- | | |
|----------|---------|
| 1. Gazal | Insha |
| 2. Gazal | Ghalib |
| 3. Gazal | Hali |
| 4. Gazal | Momin |
| 5. Gazal | Zouq |
| 6. Gazal | Aatish |
| 7. Gazal | Mushafi |
| 8. Gazal | Nasiq |

Non Detail (Dramay)

- | | | |
|--|-----------------|----------------|
| 1. Chacha Chakkan (Ibtedai 4 baab) | Imtiyaz Ali Taj | |
| 2. Nazmein : i) Berozgaar ii) Mumbai iii)Ghalib ku bura kyun kahun | | Dilawar Figaar |

Ahal-e-Qalam ka Taruf

FOURTH SEMESTER B.A. DEGREE COURSE

Prose

- | | |
|-----------------------------|--------------------------|
| 1. Seerat-e-Iqbal | Abdulslam Nadvi |
| 2. Talmihaat-e-Ghalib | Mahmood Nayazi |
| 3. Syed Insha alla Khan | Md. Hussain Azadi |
| 4. Haqeeqi Azmath | Maulana. Abul Kalam Azad |
| 5. Dr. Maqtaar Ahmed Ansari | Rasheed Ahmed Siddiqi |

Poetry

(a) Nazmein

- | | |
|---|--------------------|
| 1. Har Nafs har Lamha Justaju-e-Mustafa | Muneer Ahmed Janvi |
| 2. Aaj Bazaar Mein | Faiz Ahmed Faiz |
| 3. Boostan-e-Qayal ki (talqees) | Siraj Aurangabadi |
| 4. Shahar-e-Ashoob(Talqees Qaseeda) | Sauda |
| 5. Kaun Dushman Hai | Ali Sardar Jaffri |

(b) Gazalein

- | | |
|----------|-------------------------|
| 1. Gazal | Khali Qutub Shah |
| 2. Gazal | Wali |
| 3. Gazal | Siraj |
| 4. Gazal | Hatim |
| 5. Gazal | Mirza Mazhar Jane Janan |
| 6. Gazal | Qayum chand puri |
| 7. Gazal | Meer |
| 8. Gazal | Meer Dard |

Non Detail Text

- | | |
|--------------------------|---------------------|
| 1. Quda Hafiz(Drama) | Shoukath Thanvi |
| 2. Meera ka Sham(Afsana) | Tarannum Riyaz |
| 3. Eed ka Din | Sulayman Qatib |
| 4. Char bajay | Rajh Mehdi Ali khan |

DIVISION OF MARKS IS COMMON TO ALL THE SEMESTERS (I TO IV)

B.A. DEGREE COURSE

Division of Marks Theory 70 + Internal Assessment : 30=100
(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1.	Multiple Choice questions from Prose, Poetry, and N.D. Text	10/10	10x1	10
2.	Essay Type	2/4	2x8	16
3.	Short type questions from Prose & Poetry	3/5	3x3	09
4.	Annotations from Prose & Poetry	3/5	3x2	06
5.	Appreciation of the Poem	1/3	1x6	06
6.	Explanations of couplets	3/5	3x3	09
7.	(a) Essay type questions from N.D.Text (b) Short type questions from N.D.	2/4 2/3	2x4 2x3	08 06
8.	Internal Assessment			30
			Total	100

FIRST SEMESTER B.Sc. DEGREE COURSE

Prose

- | | |
|---|---------------------|
| 1. Hazrath Fathimathuz Zohra | Tahir Masood |
| 2. Name Plate | Tariq Chattari |
| 3. Mard Azad | Qajah Ahmed Farooqi |
| 4. Saveray ki Sair | Narender Luther |
| 5. Do Qath | |
| i. Rasheed Ahmed Siddiqui ii. Zakir Hussain | |

Poetry

(a) Nazmein

- | | |
|--|--------------------|
| 1. Naath-e-Sahreef | Madna Manzar |
| 2. Rooh arza Aadam ka Isteqbal kartihai | Allamma Iqbal |
| 3. Cricket aur Mushaira | Dilawar Fiqaar |
| 4. Nashath-e-Umeed | Altaf Hussain Hali |
| 5. Rubaiyath i. Firaq ii. Amjad iii. Akbar | |

(b) Gazalein

- | | |
|----------|---------------------|
| 1. Gazal | Basheer Badar |
| 2. Gazal | Mahmood Iyaz |
| 3. Gazal | Qateel Shifai |
| 4. Gazal | Faiz Ahmed Faiz |
| 5. Gazal | Jigar Muradabadi |
| 6. Gazal | Firaq Gorukh puri |
| 7. Gazal | Jaan Nissar Akhter |
| 8. Gazal | Majrooh Sultan Puri |

Non Detail Text (Drama)

- | | |
|-------------|-----------------|
| 1. Anarkali | Imtiyaz Ali Taj |
|-------------|-----------------|

Ahalay qalam ka taruf

SECOND SEMESTER B.Sc. DEGREE COURSE

Prose

- | | |
|------------------------------------|--------------------|
| 1. Nobel ka Inami Fund | Saktif and Saktif |
| 2. Iqbal ka Tassawaray watan dosti | Qamar Raees |
| 3. Chief Justice Md. Yusuf | Abad Shahpuri |
| 4. Sir Syed ka Taraz Tahreer | Altaf Hussain Hali |
| 5. Sadak aur Shairi | Mujtaba Hussain |

Poetry

(a) Nazmein

- | | |
|--------------------------|--------------------|
| 1. Hamd | Md. Ali Jauhar |
| 2. Javeed nama (Talqees) | Syed Ahmed Eesaar |
| 3. Inqilab | Muqdoom Mohiyuddin |
| 4. Silsilay Toot gaye | Aqtarul Iman |
| 5. Barhavan Khiladi | Ifteqaar Aarif |

(b) Gazalein

- | | |
|----------|------------------|
| 1. Gazal | Wali Aurangabadi |
| 2. Gazal | Israrulhuq Majaz |
| 3. Gazal | Fani badayuni |
| 4. Gazal | Hasrath muhani |
| 5. Gazal | Asgar Goundvi |
| 6. Gazal | Ameer Meenai |
| 7. Gazal | Daag Dehlvi |
| 8. Gazal | Allama Iqbal |

Non Detail Text (Drama)

Darwazay Kholdo Krishenchander

THIRD SEMESTER B.Sc. DEGREE COURSE

Prose

- | | |
|-------------------------------------|-----------------------|
| 1. Mujtaba Hussain | Wahab Andaleeb |
| 2. Kaanch bananay ka fun | Saktif aur Saktif |
| 3. Mouzanay Awwal aur Hazrath Bilal | Ali Azgar Choudhari |
| 4. Mujhe Meray Dostoan say Bachav | Sajjad Hyder Yaldaram |
| 5. Syed Insha Allah Khan | Md. Hussain Azad |

Poetry

(a) Nazmein

- | | |
|----------------------------|--------------------|
| 1. Naath-e-Shareef | Sagar Karnataki |
| 2. Mein Unkay Geet Gatahoo | Jan Nisar Akhter |
| 3. Salamathi Council | Ahmed Faraz |
| 4. Bahaar Aai | Akbar Ilahabadi |
| 5. Taj Mahal | Sikander Ali Wajid |

(b) Ghazelin

- | | |
|----------|--------------------|
| 1. Gazal | Jazbi |
| 2. Gazal | Qatil Shafai |
| 3. Gazal | Israrul Huq Majazi |
| 4. Gazal | Saher Ludhyanvi |
| 5. Gazal | Baaqar Mehdi |
| 6. Gazal | Basheer Badar |
| 7. Gazal | Ibne Insha |
| 8. Gazal | Perveen Shakir |

Non Detail Text

Chai kay Baagh Qurratul ain Hyder

Ahaley Qalam ka Taruf

FOURTH SEMESTER B.Sc. DEGREE COURSE

Prose

- | | |
|--|---------------------|
| 1. Ghalib ki Azmath | Zareena Aqeel Ahmed |
| 2. Newton aur Sayb | Saktif aur Saktif |
| 3. Salah Hadeeba | Majlis-e- Idarat |
| 4. Insaan kisi Haal mein qush nahi rehta | Md. Hussain Azad |
| 5. Saheb Bathroom mein hain | Mujtaba Hussain |

Poetry

(a) Nazmein

- | | |
|--------------------|-----------------|
| 1. Naath-e-Shareef | Maher Alqaadri |
| 2. Darya-e-Ishq | Meer Taqi Meer |
| 3. Tarhi Ghazal | Dilawar Figaar |
| 4. Tasalli | Faiz |
| 5. Adam ka Nuzool | Josh Malihabadi |

(b) Gazalein

- | | |
|----------|-------------------|
| 1. Gazal | Siraj Aurangabadi |
| 2. Gazal | Meer |
| 3. Gazal | Aatish |
| 4. Gazal | Ghalib |
| 5. Gazal | Daagh |
| 6. Gazal | Iqbal |
| 7. Gazal | Jaan Nisar Akhter |
| 8. Gazal | Ahmed Faraaz |

Non Detail Text

Saas Bahu Saleh Abid Hussain

DIVISION OF MARKS IS COMMON TO ALL THE SEMESTERS (I TO IV)**B.Sc. DEGREE COURSE**

Division of Marks

Theory 70 + Internal Assessment : 30=100

(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1.	Multiple Choice questions from Prose, Poetry, and N.D. Text	10/10	10x1	10
2.	Essay Type	2/4	2x8	16
3.	Short type questions from Prose & Poetry	3/5	3x3	09
4.	Annotations from Prose & Poetry	3/5	3x2	06
5.	Appreciation of the Poem	1/3	1x6	06
6.	Explanations of couplets	3/5	3x3	09
7.	(a) Essay type questions from N.D.Text (b) Short type questions from N.D.	2/4 2/3	2x4 2x3	08 06
8.	Internal Assessment			30
			Total	100

FIRST SEMESTER B.COM DEGREE COURSE

Prose

- | | |
|--|---------------------|
| 1. Doosroan say taalugaat paida
karnay kay aham usool | Deil Karnegi |
| 2. Kaaheli | Sir Syed Ahmed Khan |
| 3. Meer ki seerath | Qwaja Ahmed Farooqi |
| 4. Haj-e-Akbar | Premchand |
| 5. Cheeni Aash tray ki yaadmein | Mujtaba Hussain |

Poetry

(a) Nazmein

- | | |
|------------------------------|--------------------|
| 1. Hamd | Qwaja Meer Dard |
| 2. Mousam Garma | Md. Rafi Souda |
| 3. Umeed say Qitaab | Altaf HussainHali |
| 4. Insaan aur Bazm-e-Qudrath | Allama Iqbal |
| 5. Indira Gandhi | Sikandar Ali Wajid |

(b)Gazalein

- | | |
|----------|--------------------|
| 1. Gazal | Israrul Huq Majaz |
| 2. Gazal | Saher Ludhyanvi |
| 3. Gazal | Shahariyaar |
| 4. Gazal | Jan Nisar Akther |
| 5. Gazal | Firaaq Gourakhpuri |
| 6. Gazal | Khaleel Mamoon |
| 7. Gazal | Nasir Qazmi |
| 8. Gazal | Parveen Shakir |

Non Detail Text (Dramay)

- | | |
|-------------|---------------|
| 1. Bazaar | Shameem Hanfi |
| 2. Chouraha | Shameem Hanfi |

Ahalay qalam ka taruf

SECOND SEMESTER B.COM DEGREE COURSE

Prose

- | | |
|--|-------------------------------------|
| 1. Moulvi Abdul Haq | Moulana. Waheeduddin Saleem Marhoom |
| 2. Is Abaad qarabay mein | Aqtarul Iman |
| 3. Aainay mein | Yusuf Nazim |
| 4. Ummul Mominain Hazarath
Qutayjatul Kubra | Talib Hashmi |
| 5. Ittefaqi Rung | Saktif and Saktif |

Poetry

(a) Nazmein

- | | |
|--------------------------------|------------------------|
| 1. Naath-e-Shareef | Moulana.Zafar Ali Khan |
| 2. Barsaath ki Baharein | Nazeer Akbarabadi |
| 3. Andheri Raat ka Musafir | Israrul Haq Majazi |
| 4. Sheeshoan ka masiha koinahi | Faiz ahmed Faiz |
| 5. Jashn-e-Ghalib | Saher Ludhiyanvi |

(b) Ghazalein

- | | |
|-----------|-------------------|
| 1. Ghazal | Jigar Murabadi |
| 2. Ghazal | Fani Badayuni |
| 3. Ghazal | Hasrath Muhani |
| 4. Ghazal | Azghar Goundvi |
| 5. Ghazal | Ibne Insha |
| 6. Ghazal | Hameed Almas |
| 7. Ghazal | Zameer Aqil Shahi |
| 8. Ghazal | Nasir Qazmi |

Non Detail Text (Dramay)

- | | |
|----------------------|--------------------|
| 1. Dilruba (Novelet) | Qurratul-ain-Hyder |
|----------------------|--------------------|

THIRD SEMESTER B.COM DEGREE COURSE

Prose

- | | |
|-------------------------------|-------------------------|
| 1. Sukhi Reth | Jeelani Banu |
| 2. Jigar Muradabadi | Shahid Ahmed Dehelvi |
| 3. Chidiya Chiday ki Kahani | Moulana Abul Kalam Azad |
| 4. Kaabay ki Hawas | Ashiq Hussain Batalvi |
| 5. Shaksiyat aur Qud Iteymadi | Del Karnaygi |

Poetry

(a) Nazmein

- | | |
|---|--------------------|
| 1. Hamd Lum-e-zal | Raahi Fidai |
| 2. Aawara Hona bakawali ka(Gulzar Naseem) | Dayashankar Naseem |
| 3. Qhak-e-hind | Chakbast |
| 4. Ek Qwab aur | Ali Sardar Jaafari |
| 5. Nawa-e- Zayr Labi | Hameed Almas |

(b) Ghazalein

- | | |
|-----------|-------------|
| 1. Ghazal | Meer Dard |
| 2. Ghazal | Zouq |
| 3. Ghazal | Jigar |
| 4. Ghazal | Josh |
| 5. Ghazal | Firaq |
| 6. Ghazal | Majaz |
| 7. Ghazal | Jazbi |
| 8. Ghazal | Nasir Kazmi |

Non Detail Text (Dramay)

- | | |
|----------------------------------|--------------------|
| 1. Karobar | Mirza Sageer Ahmed |
| 2. Zabaan daani kay chand Usool | Rasheed Hasan Khan |
| 3. Ishteharaat aur Rabitah Aamah | Irfan Siddiqui |

Ahle-e-qalam ka taruf

FOURTH SEMESTER B.COM DEGREE COURSE

Prose

- | | |
|-----------------------------------|------------------------------------|
| 1. Doosra Kinara | Md. Ashraf |
| 2. Arab Irani Talmihaath | Moulana Waheeduddin Saleem Marhoom |
| 3. Mitya Brij | Abdul Haleem Sharar |
| 4. Hazrath Isma-e-bintay Abubakar | Mufti Sanauulla Mahmood |
| 5. Internet | Md. Izhaar |

Poetry

(a) Nazmein

- | | |
|----------------------------|----------------|
| 1. Naath-e-Shareef | Mudanna Manzar |
| 2. Moulana Abul Kalam Azad | Perveez Shahdi |
| 3. Aadam ka Nuzool | Josh |
| 4. Shayer | Ahmed Faraz |
| 5. Bhonknay kay Aadaab | Dilawar Figaar |

(b) Ghazlein

- | | |
|-----------|-----------|
| 1. Ghazal | Wali |
| 2. Ghazal | Meer Dard |
| 3. Ghazal | Meer |
| 4. Ghazal | Souda |
| 5. Ghazal | Ghalib |
| 6. Ghazal | Aatish |
| 7. Ghazal | Momin |
| 8. Ghazal | Daagh |

Non Detail Text

- | | |
|---------------------------------------|---------------|
| 1. Tarseel Zabani | Irfan Siddiqi |
| 2. Face Book kay Faiday aur Nuqsanath | Qurshid Iqbal |
| 3. Aapa | Mumtaz Mufti |

DIVISION OF MARKS IS COMMON TO ALL THE SEMESTERS (I TO IV)

B.COM.. DEGREE COURSE

Division of Marks Theory 70 + Internal Assessment : 30=100
 (Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1.	Multiple Choice questions from Prose, Poetry, and N.D. Text	10/10	10x1	10
2.	Essay Type	2/4	2x8	16
3.	Short type questions from Prose & Poetry	3/5	3x3	09
4.	Annotations from Prose & Poetry	3/5	3x2	06
5.	Appreciation of the Poem	1/3	1x6	06
6.	Explanations of couplets	3/5	3x3	09
7.	(a) Essay type questions from N.D.Text (b) Short type questions from N.D.	2/4 2/3	2x4 2x3	08 06
8.	Internal Assessment			30
			Total	100

FIRST SEMESTER BBM DEGREE COURSE

Prose

- | | |
|------------------------------------|---------------------------------|
| 1. Seerath Hazrath Abubakar Siddiq | Moulana Akbar Shah Najeeb Abadi |
| 2. Seerat-e-Hali | Manazir Ashiq Harganvi |
| 3. Lajwanti | Rajender Singh Bedi |
| 4. Qarib Qarib | Fikr Taunsvi |
| 5. APJ Abdul Kalam ki Dairy | Salahuddin Parveez |

Poetry

(a) Nazmein

- | | |
|---------------------|-------------------|
| 1. Hamd | Daag Delhvi |
| 2. Banjara Nama | Nazeer Akbarabadi |
| 3. Subh-e- Azadi | Faiz Ahmed Faiz |
| 4. Sirguzasht Aadam | Allama Iqbal |
| 5. Yaad | Sulaiman Qateeb |

(b) Ghazlein

- | | |
|-----------|--------------------|
| 1. Ghazal | Qateel Shafayi |
| 2. Ghazal | Basheer Badar |
| 3. Ghazal | Mazhar Imam |
| 4. Ghazal | Ahmed Nadeem Qasmi |
| 5. Ghazal | Jaan Nisar Akhter |
| 6. Ghazal | Firaq Gourakhpuri |
| 7. Ghazal | Majrooh Sultanpuri |
| 8. Ghazal | Allama Iqbal |

Non Detail Text (Drama)

- | | |
|---------------|-------------|
| 1. Qana Jungi | Prof Mujeeb |
|---------------|-------------|

Ahalay Qalam ka Taruf

SECOND SEMESTER BBM DEGREE COURSE

Prose

- | | |
|--|---------------------|
| 1. Josh ki Shairi mein Razmiya Shiddat | Syed Hamid Hussain |
| 2. Ghalib kay Aqlaq-o-Adath | Altaf Hussain Hali |
| 3. Takmeel | Sir Syed Ahmed |
| 4. Miss. Chidiya ki Kahani | Qwaja Hassan Nizami |
| 5. Shaksiyath aur qudh Etemadi | Deel Karnagi |

Poetry

(a) Nazmein

- | | |
|-----------------------|--------------------|
| 1. Hamd / Nath | Altaf Hussain Hali |
| 2. Saraye Fani | Mirza Shouq |
| 3. Zandan ki ek subeh | Faiz Ahmed Faiz |
| 4. Nazar Aligarh | Israrul Huq Majaz |
| 5. Taleem-e-Niswan | Akbar Ilahabadi |

(b) Ghazlein

- | | |
|-----------|------------------------|
| 1. Ghazal | Siraj Aurangabadi |
| 2. Ghazal | Daag Dehlvi |
| 3. Ghazal | Ameer Meenai |
| 4. Ghazal | Hasrath Muhani |
| 5. Ghazal | Jigar Murabadi |
| 6. Ghazal | Fani Badyuni |
| 7. Ghazal | Azgar Goundvi |
| 8. Ghazal | Khaleelur Rehman Aazmi |

Non Detail Text

Saathwan Angan(Novelet)

Qadijah Mastoor

THIRD SEMESTER BBM DEGREE COURSE

Prose

- | | |
|--------------------------------------|-----------------------|
| 1. Photographer | Qurratul ain Hyder |
| 2. Kundan | Rasheed Ahmed Siddiqi |
| 3. Chai ka Bayan | Abul Kalam Azad |
| 4. Kabhi Hum mein tum mein qarar tha | Yusuf Fazam |
| 5. Hazrath Bilal | Ali Asgar Choudhari |

Poetry

(a) Nazmein

- | | |
|----------------------------|----------------|
| 1. Hamd | Tabish Mehdi |
| 2. Wadi Ganga mein ek raat | Aqter Shirani |
| 3. Raazi Barza | Md. Ali Jouhar |
| 4. Ek Ladka | Aqtarul Iman |
| 5. Qitaab Bijvanan Islam | Iqbal |

(b) Ghazlein

- | | |
|-----------|----------------------|
| 1. Ghazal | Momin |
| 2. Ghazal | Fani |
| 3. Ghazal | Daag |
| 4. Ghazal | Firaq Gorakhpuri |
| 5. Ghazal | Nasir Kazmi |
| 6. Ghazal | Yaas Eganah Chingazi |
| 7. Ghazal | Majrooh Sultanpuri |
| 8. Ghazal | Azgar Goundavi |

Non Detail

Patras kay Mazameen (Ibtedai paanch Ahbab)

FOURTH SEMESTER BBM DEGREE COURSE

Prose

- | | |
|----------------------------|--------------------|
| 1. Aaj kay Baad | Yusuf Arifi |
| 2. Hazrath Umer ka Insaaf | Shibli Nomani |
| 3. Talbah Say Qitab | Waheeduddin Saleem |
| 4. Istehrat-o-Rabita-e-aam | Irfan Siddiqi |
| 5. Faiz Ahmed Faiz | Mujtaba Hussain |

Poetry

(a) Nazmein

- | | |
|---------------------------------------|---------------------------|
| 1. Aap say roushan hai bazm-e-kainaat | Iftaqar Ajmal Shaheen |
| 2. Dehat ki shaam | Ihsan Danish |
| 3. Dawat-e-amal | Zafar Ali Khan |
| 4. Shab-e-Chiraq | Mahmood Aiyaz |
| 5. Rubaiyaat | i)Akbar ii)Iqbal iii)Josh |

(b) Ghazlein

- | | |
|-----------|----------------------|
| 1. Ghazal | Wali Aurangabadi |
| 2. Ghazal | Souda |
| 3. Ghazal | Meer |
| 4. Ghazal | Ghalib |
| 5. Ghazal | Momin |
| 6. Ghazal | Daagh |
| 7. Ghazal | Hasrath |
| 8. Ghazal | Yaas Yagana Changizi |

Non Detail

Patras kay Mazameen (6 to 10)

DIVISION OF MARKS IS COMMON TO ALL THE SEMESTERS (I TO IV)

BBM. DEGREE COURSE

Division of Marks Theory 70 + Internal Assessment : 30=100
(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1.	Multiple Choice questions from Prose, Poetry, and N.D. Text	10/10	10x1	10
2.	Essay Type	2/4	2x8	16
3.	Short type questions from Prose & Poetry	3/5	3x3	09
4.	Annotations from Prose & Poetry	3/5	3x2	06
5.	Appreciation of the Poem	1/3	1x6	06
6.	Explanations of couplets	3/5	3x3	09
7.	(a) Essay type questions from N.D.Text (b) Short type questions from N.D.	2/4 2/3	2x4 2x3	08 06
8.	Internal Assessment			30
			Total	100

FIRST SEMESTER BCA DEGREE COURSE

Prose

- | | |
|--------------------------|---------------------|
| 1. Sair Pehle Dervesh ki | Mir Amman |
| 2. Apni Madad aap | Sir Syed |
| 3. Ghalib ki ShairI | Hali |
| 4. Computer ka Irteqa | Mahmood Anwar Aashi |
| 5. Computer ki Naslein | Mahmood Anwar Aashi |

Poetry

(a) Nazmein

- | | |
|-------------------------------------|-------------------|
| 1. Qaid Khanay ki raat | Anees |
| 2. Jogan aur chandni Raat | Meer Hasan |
| 3. Haan Mahe nau sune hum uska naam | Ghalib |
| 4. Tazheeke Rozgaar | Souda |
| 5. Israf. | Hali |
| 6. Kaljug | Nazeer Akbarabadi |

(b)Gazlein

- | | |
|--|--------|
| 1. Muflisi sab bahar khote hai | Wali |
| 2. Kia Tujhay Ishq ne Zalim Qarab
ahista ahista | Wali |
| 3. Ashk Aankhon mein kab nahi aatay | Meer |
| 4. Arz-o-Sama kahan teri Wasat ku pa sakay | Dard |
| 5. Tohmatein chand apne zimma dhar chalay | Dard |
| 6. Dehnn per hain un key guman kaise kaise | Aatish |
| 7. Koyi umeed bar nahi aati | Ghalib |
| 8. Ya na thi hamari qismat | Ghalib |

Non Detail

Afsanay by Md. Ather Farooqi

1. **Namak ka Darogah**
2. **ICS**
3. **Jeenay kay liyay**
4. **Kalay Saheb**
5. **Footpath**

SECOND SEMESTER BCA DEGREE COURSE

Prose

- | | |
|-------------------------------|-------------------------|
| 1. Qasim | Sadath Hasan Manto |
| 2. Ek Qath | Maulana Abul Kalam Azad |
| 3. Seerat-e-Hali | Moulvi Abdul Haq |
| 4. Computer ki Qismein | Mahmood anwar Aashi |
| 5. Indiraji aur aqraji Aalaat | Mahmood anwar Aashi |

Poetry

(a) Nazmein:

- | | |
|-----------------------------|-----------------|
| 1. Bazme Anjum | Allama Iqbal |
| 2. Kashmir | Chakbast |
| 3. Badli ka chand | Josh Malihabadi |
| 4. Pairhane Sharar | Sardar Jafri |
| 5. Vidai Ganga mein ek raat | Aqter Sherani |

(b) Gazlein

- | | |
|---|--------|
| 1. Wo jo hum may tum may qarar tha | Momin |
| 2. Asar usku zara nahin hota | Momin |
| 3. Adam dubara soo-e-bihisht-e- bareen | Zauq |
| 4. Lagta nahin hay jee mera | Zaffer |
| 5. Na kisi ki aankh ka noor hoon | Zaffer |
| 6. Haqeeqat mein hai ma siwa cheez hi kya | Dagh |
| 7. Shouq say na kami ki badaulath | Fani |
| 8. Ek Muamma hai samajhnay ka na samjhanay ka | Fani |

Non Detail

Afsanay by Md. Ather Farooqi

1. Athara Anay
2. Sirf ek Ana
3. Qudkashi
4. Grahan
5. Chothi ka joda

THIRD SEMESTER BCA DEGREE COURSE

Prose

- | | |
|--------------------------------|-----------------------|
| 1. Jaday ki Sheddath | Rajab Ali Baig Sarwar |
| 2. Ghalib ki Shaksiyat | Hali |
| 3. Mahmood Ayaz – Chand Yadein | Azeezulla Baig |
| 4. Softwear aur uski qismein | Mahmood anwar Aashi |
| 5. Memory aur uski qismein | Mahmood anwar Aashi |

Poetry

(a) Nazmein

- | | |
|------------------------|-----------------|
| 1. Gulam Qadar ruhayla | Allama Iqbal |
| 2. Aawarah | Majaz |
| 3. MUsaddas-e-Hali | Hali |
| 4. Uroosul bilad | Aqtarul Iman |
| 5. Subhe Azadi | Faiz Ahmed Faiz |

(b) Ghazlein

- | | |
|---|---------------------|
| 1. Bhulata Lakh hoon lakin barabar yaad atay hain | Hasrath Muhani |
| 2. Dil gaya rounaq-e- hayath gayi | Jigar Muradabadi |
| 3. Kabhi Shaaq-o-Sabz-o-Barg per | Jigar Murabadi |
| 4. Sar mein souda bhi nahi dil may tamanna bhi nahi | Firaq Gorakhpuri |
| 5. Na janay ashk say ankhon mein kyun hain | Firaq Gorakhpuri |
| 6. Shaglay Ulfath ku jo ahabab bura kahatay hain | Majrooh Sultan puri |
| 7. Chaman may thay to chaman hi ki tastan suntay | Moin Ahasan Jazbi |
| 8. Faza-e-Shab mein sitaray hazaar | Moin Ahasan Jazbi |

Non Detail Text

- | | |
|---------------------------|-----------------------|
| 1. Moulana Md. Ali Jouhar | Rasheed Ahmed Siddiqi |
| 2. Gadri ka lal | Abdul Huq |
| 3. Manto | Shahid Ahmed Dehlvi |
| 4. Jigar Muradabadi | Shahid Ahmed Delhvi |

FOURTH SEMESTER BCA DEGREE COURSE

Prose

- | | |
|-------------------------|-----------------------|
| 1. Budhi kaki | Premchand |
| 2. Mureed pur ka peer | Patras Bokhari |
| 3. Phool waloan ki sair | Mirza Fathauulla Baig |
| 4. Internet | Mahmood anwar Aashi |
| 5. Inpage | Imran Larry |

Poetry

(a) Nazmein

- | | |
|------------------------------|---------------------|
| 1. Marsia Ghalib | Hali |
| 2. Madar-e-Watan | Sarwar Jahan Aabadi |
| 3. Tasveer-e-Dard | Allama Iqbal |
| 4. Wo Des say anaywalay bata | Aqter Shirani |
| 5. Hyder Ali | Sagar Nizami |

(b) Gazalein

- | | |
|---|------------------|
| 1. Agar kajru hain anjum asman tera hai ya mera | Allama Iqbal |
| 2. Gesu-e-tabdaar ku aur bhi tabdaar kar | Allama Iqbal |
| 3. Raaz-e-ulfath Chupa kay dekhliya | Faiz Ahmed Faiz |
| 4. Tum aye na Subhe Intezar Guzri | Faiz Ahnmed Faiz |
| 5. Gali Gali meri yaad Bichi hai | Nasir Kazmi |
| 6. Baisay Wahashatay Junoon Kahatay hain jisay | Shehre Yaar |
| 7. Ye Shaher Shaher ki Aabadiyein | Mahmood Iyaz |
| 8. Ab na doori ki Shikayat hai | Mahmood Iyaz |

Non Detail Text

- | | |
|-------------------------|---------------------|
| 1. Sulaiman qateeb | Wahab Andaleeb |
| 2. Mujtaba Hussain | Wahab Andaleeb |
| 3. Mard Azad | Qwaja Ahmed Farooqi |
| 4. Mushtaq Ahmed Yusufi | Mujtaba Hussain |

DIVISION OF MARKS IS COMMON TO ALL THE SEMESTERS (I TO IV)**BCA. DEGREE COURSE**

Division of Marks

Theory 70 + Internal Assessment : 30

(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1.	Multiple Choice questions from Prose, Poetry, and N.D. Text	10/10	10x1	10
2.	Essay Type	2/4	2x8	16
3.	Short type questions from Prose & Poetry	3/5	3x3	09
4.	Annotations from Prose & Poetry	3/5	3x2	06
5.	Appreciation of the Poem	1/3	1x6	06
6.	Explanations of couplets	3/5	3x3	09
7.	(a) Essay type questions from N.D.Text (b) Short type questions from N.D.	2/4 2/3	2x4 2x3	08 06
8.	Internal Assessment			30
			Total	100

FIRST SEMESTER B.A./B.Sc/B.com./BBM/BHM/BFA/BCA
2014-15(for Persian Language students)

Paper1.1. Persian Language and Literature:

Topics and Books Prescribed:

Unit-I

Jadeed Kitab-e-Farsi Part-I : by Afaq Ahmed Irfani.

Unit-II

Tareeqe Adbiyate Iran: by Dr.Raza Zada Shafaq
Roodki, firdosi, Baba Taher, Anwari, Khakhani, Manuchehri, Omar Qayam.

Unit-III:

Rubaiyat-e Umer Qayam (8 only)

Unit-IV:

Chehel Sabaq, - Gardaan, Mazi Mutlaq, MaziQareeb and Mazi mutlaq, Mazi Bayeed only.

SECOND SEMESTER B.A./B.Sc/B.COM /BBM/BHM/BFA/BCA
(for Persian Language students)

Paper 1.2. Persian Language and Literature:

Topics and Books Prescribed:

Unit-I

Jadeed Kitab-e-Farsi Part-I : by Afaq Ahmed Irfani.

Unit-II

Tareeqe – Adbiyat-e-Iran: Dr.Raza Zada Shafaq
Romi,Ameer Khusro, Jami, Sanai, Nizami, Shaik attar..

Unit-III

Ghazliate-e-Ameer Khsro (5 only)

Unit-IV:

Gardan (Hall and Muzare)

DIVISION OF MARKS IS COMMON TO I & II SEMESTERS

Division of Marks

Theory 70 + Internal Assessment : 30

(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

1. No.	Content of the Paper	Choices	Marks	Total Marks
1	Multiple Choice	10/10	10x1	10
2.	Translation of sentences from persian to Urdu/English	4/7	4x2	08
3.	Gardan	1 / 2	1x10	10
4.	Meanings	3 / 5	1x3	03
5	Singular – Plural	3 / 5	1x3	03
6	Definations of Grammatic Istelihat	3 / 5	3x2	06
7	Long Questions from History of Persian literature	1 / 2	1x10	10
8	Short Notes(Unit-I)	2 / 4	2x5	10
9	Fill up the blanks (Unit-II)	5 / 5	5x1	05
10	Appreciation of Rubaiat	1 / 2	1x5	05
11.	Internal Assessment			30
			Total	100

THIRD SEMESTER B.A./B.Sc/B.COM./BBM/BHM/BFA/BCA
(for Persian Language students)

Paper 2.1. Persian Language and Literature:

Unit-I

Jadeed Kitab-e-Farsi Part-III (1 to 13 lessons) : by Afaq Ahmed Irfani.

Unit-II:

Gulistan Chapter –II: by Sadi Shirazi

Hikayat No.5,7,9,12,13,15.

Unit-III:

Payam-e-Mashriq: by Dr.Iqbal

(4 Poems)

Unit-IV:

Shahnama-e-Firdosi (20 couplets).

FOURTH SEMESTER B.A./B.Sc/B.com./BBM/BHM/BFA/BCA
(for Persian Language students)

Paper 2.2. Persian Language and Literature:

Unit-I

Jadeed Kitab-e-Farsi Part-III (14 to 26 lessons) : by Afaq Ahmed Irfani.

Unit-II:

Gulistan Chapter –VII:

by Sadi Shirazi

Hikayat No.(1 to 6)

Unit-III:

Diwan-e-Hafiz

Ghazals (2 to 6 =5)

Unit-IV:

Masnavi-e-Maulana Rume (20 Couplets)

DIVISION OF MARKS IS COMMON TO III & IV SEMESTERS

Division of Marks

Theory 70 + Internal Assessment : 30

(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1	Multiple Choice	10/10	10x1	10
2.	Translation of passage (Unit –II) from persian to Urdu.	1/2	1x10	10
3.	Appreciation of Qitat from Unit -II	1 / 2	1x5	05
4.	Short Question from Unit-I	4 / 6	4x2	08
5	Definitions of Gramattic Istelahat(Unit-I)	4 / 6	4x2	08
6	Appreciation of Couplet (Unit-III)	3 / 5	3x2	06
7	Summary of Poem (Unit-III)	1 / 2	1x10	10
8	Question on author	1 / 2	1x8	08
9	Meanings	5 / 8	5x1	05
10	Internal Assessment			30
			Total	100

FIRST SEMESTER B.A./B.Sc/B.com./BBM/BHM/BFA/BCA
2014-15.(for Arabic Language students)

Paper 1.1 Arabic Language and Literature

Topics /Books Prescribed :

1. Al-Qiratur Rasheeda Part-1 By abdul Hasan Ali Nadvi(1 to 15 lessons only)
2. Arabi ka Moallima Part-I by Moulvi Abdus sattar Khan (1 to 7 lessons only)

SECOND SEMESTER B.A/B.Sc/B.Com/B.B.M/B.H.M/B.F.A/BCA

Paper 1.2: Arabic Language & Literature

Topics /Books Prescribed :

- 1 Al-Qiratur Rasheeda Part-1 By abdul Hasan Ali Nadvi(16 to 31 lessons only)
2. Arabi ka Moallima Part-I by Moulvi Abdus sattar Khan (8 to 14 lessons only)

THIRD SEMESTER B.A/B.Sc/B.Com/B.B.M/B.H.M/B.F.A/BCA

Paper 2.1: Arabic Language & Literature

Topics /Books Prescribed :

Unit-I:

Al-qiratur Rashida Part-II by Abul Hassan Ali Nadvi

Unit-II

Arabi ka Moallim by Moulvi Abdus Sattar Khan (21 to 25 lessons)

FOURTH SEMESTER B.A/B.Sc/B.Com/B.B.M/B.H.M/B.F.A/BCA

Paper 2.2: Arabic Language & Literature

Topics /Books Prescribed :

1. Tamreenun Nahv By Maulana Mohd. Mustafa Naqvi
(Second half of the Book)
2. Al-Qasusun-Nabiyeen Vol.-V By Abul Hasan Ali Nadvi
(Second half of the Book)

DIVISION OF MARKS IS COMMON TO ALL THE I TO IV SEMESTERS

Division of Marks Theory 70 + Internal Assessment : 30
(Internal Assessment :Attendance 10, Test-10, Seminar + Assignment – 10)

Sl. No.	Content of the Paper	Choices	Marks	Total Marks
1	Definitions with examples Unit-II	3 / 5	3 x 5	15
2.	Questions from prose lessons	2 / 5	2x08	16
3.	Appreciation of the Poem	1 / 3	1x09	09
4.	Multiple choice questions (Unit I & II)	10/10	10x1	10
5	Questions in Grammer(Unit – II)	8 / 10	8x1	08
6	Translation from Arabic to Urdu/English (Unit-I)	7 / 7	7x1	07
7	Translation from Arabic English to Arabic(Unit-I)	7 / 7	7x1	07
8.	Internal Assessment			30
9.			Total	100

**CBCS SYLLABUS FOR B.A. OPTIONAL URDU
FIRST SEMESTER B.A. 2014-15**

Prose & Poetry.

Unit I : Asnaf-E-adab

- (i) Ghazal-Nazm, Qaseeda, Marsia, Masnavi Rubai.
(ii) Dastaan ,Novel, Afsana.

Unit-II: (i) Sabras (25 to 50 pages)

- (ii) Sir Syed aur unke rufqa hali, Shibli, Sir Syed, Md. Hussain Azad, Zakaulla

Unit-III : Poetry

(i) Shaidi Kotwal Khan - Sauda

(ii) Jis din yezid sham mein Masnad Nasheen huwa: Marsia-e-Anees se 2nd
Marsia Page 92, 53 Bandh.

(iii) Ghazliath

- (a) Huwa hoon Beqabar tujh mast ankhiya ki qabar sunkey Wali
(b) Kya Karoon sharha qasta jane ki Mir
© Sad jalwa rubaroo hai jomizgan uthayiye Ghalib
(d) Woh jo hum mein tum mein qarar tha tumhey yaad ho key
na yaad ho Momin
(e) Jug mein na tuk koi hasa hoga Mir dard

SECOND SEMESTER B.A.

PROSE AND POETRY. TITLE OF THE PAPER : PEN PORTRAIT AND POETRY

Unit:I- Khake

- i) Dr. Ansari Marhoom Rasheed Ahmed Siddiqi
ii) Jigar Murabadi Shahid Ahmed Dehlvi
iii) Yeldram ki Yaad mein Rasheed Ahmed Siddiqi
iv) Nazir Ahmed ki Kahani Mazameen Farhat
v) Prof. Ahmed Shah Baqari Rasheed Ahmed Siddiqi

Unit:II:

Masnavi – Alinama (Talqees): Nusrath

Rubaiyath

(a) Iqbal se three

- i) Qirad ki Tangdamani se Faryad
ii) Tere darya mein toofan kyun nahi hai
iii) Kaha Iqbal ne Shaiq-e-harm sey.

(b) Hali se three

- i) Poocha jo kal anjam tarqqi-e-bash
ii) Bas bas ke hazaroan ghar ujad jathe hain
iii) Har bazm mein afreen ke layaq hona

© Akbar Ilahabadi se three

- i) Bahar ayi maye gulgoan ke fawware huwe jari
ii) Mazhab ki parakh masjid-o-mandir mein nahi hai.
iii) Jeene mein unhi ku thi izzath ke jinhey humney

Unit:III:

Ghazalein:

- i) Na kisi pay zakhm aya koi na kisi ku fikr rafu ki hai Faiz
ii) Ek Lafz ho mohabath ka adna-e-fasana hai Jigar
iii) Dhoop thi aur badal chaya tha Nasir Kazmi
iv) Khavi dil shadma dil parsu dil Hasrath
v) Saaz ek kina saaz kya janey Dagh

THIRD SEMESTER B.A

Title of the paper : DAASTAN, NOVEL AND POETRY

Unit-I	Daastan: Bagh-o-Bahar (Doosrey Dervesh ki Kahani : Mir Aman only)
Unit-II	Novel: (i) Do Gaz Zameen Abdul Samad
Unit-III	Poetry

Iqbal ki Das Gazlein:

- i) Agar Karjau hain anjum aasman tera hai ya mera
- ii) Pareshan hoke meri qak akhar dil na banjaye
- iii) Tujhey yad kya nahi hai mere dil ka who zamana
- iv) Ek danishe noorani ekdanishe burhane
- v) Yarab a jahane guzran qoob hai likhein
- vi) Bahut dekhey hain mein mashriq-o-nagrib ke buthqaney
- vii) Who harfe raaz ke mujhku sikha gaya hai junu
- viii) Maslman ke lahu mein hai saliqa dilnawazi ka
- ix) Dil soz se qali hai nigah paak nahi hai
- x) Na tu Zameen ke liye hai na Aasman ke liye.

POEMS: (a) Tariq ki Duwa (b) Lal-e-Sehra (c) Naya Shiwala
(d) Lenin khuda ke huzoor mein (e) Sir Guzishte adam.

FOURTH SEMESTER B.A

Title of the paper : Drama & Afsana

Unit-I	Drama: (i) Darwaze Khol do (ii) Khethi	Krishenchander Prof. Mujeeb
Unit-II	Fane Afsana Nigari: Adab ke Mutalaa (Chapter on Afsana nigari only)	Prof. Ather Perveez
Unit-III	Afsana:	
	(a) Kafan	Premchand
	(b) Jamoon ka Ped	Krishenchander
	© Naya Khanoon	S.H.Manto
	(d) Lajwanti	R.S.Bedi
	(e) Hasb Nasb	Qurratul-ain-Hyder

FIFTH SEMESTER B.A

Paper 3.1 Title of the paper : Tanz-o-Mizah
Unit-I Urdu Adab mein Tanzo-o-Mizah only Chapter 2nd by Wazeer Agha.

Unit-II Part (a) Nasr

Adami Nama by Mujtaba Hussain (Only following Khake included in Syllabus)

(i) Kanhiyalal Kapur (ii) Ajaz Siddiqi (iii) R.S.Bedi (iv) Muqdam Mohiyuddin (v) Krishen Chander.

Unit-III Part(b) Poetry

i)	Din mein Taarey	Basith Nausha
ii)	Qerul Bayan	Raja Mehdi Ali Khan
iii)	Kewdey ka bun	Sulaiman Qateeb
iv)	Ladka aur Neta	Dilawar Figar
v)	Farzilatifa	Akbar Ilahabadi

Paper 3.2 Title of the paper : Tareeq-e-Adab-e-Urdu and Linguistics
Unit-I Tareeq-e-Adab-e-Urdu Noorul Hassan Naqvi

Unit-II Hindustani Lisaniyarth Dr. Zor

Unit-III Ifadathe Saleem Waheeduddin Saleem

SIXTH SEMESTER B.A

Paper 4.1: Title of the Paper : Urdu Criticism
Unit –I Urdu Tanqeed ka Irteqa Ibadath Barelvi

Unit-II Sharf-e-Shaqun Zahiruddin Khan Nayaar

Paper 4.2: Title of the Paper Jadeed Urdu Adab
Unit-I Aaj ka Urdu Adab-Abul lais Siddiqui

Unit-II (i) Nazm.: Nai Nazm ka safar by Khaleellur Rahman Azmi
Following Nazmein (i) Niwala (ii) Ek Sitara (iii) Mere Dushman ki Mout (iv) Tabdeeli

(ii) Afsana : i) Talashe Huma – Rizwan Ahmed

ii) Murdam Gazeede – Mushtaq Momin

Unit-III Hum asar Urdu Ghazal (Jadeed Gazal par do Mazameen)- Abdul Kalam Qasimi
Ghazlein

i) Jurmay inkaar ki saza hi de – Nasir Kazmi

ii) Ab qushi hai na koi gum rulanay wala - Nida Fazli

iii) Kahin chand rahoan mein kho gaya kahin chandni bhi bhatak gai – Basheer badar

iv) Har Qawab kaymakan ku mismar kar diya hai - Shehreyaar.

Division of marks

Theory: 100+ Internal Assessment : 50.

(Internal Assessment : Attendance-10, Seminar-10, Assignment-10, Test-20.)

Sl. No.	Contents	Choice	Marks	Total Marks
1.	Multiple Choice questions from Asnaf, Prose & Poetry	10/10	10x1	10
2.	Essay type questions from Prose	3 / 5	3x10	30
3	Short questions from asnaf & Prose	4 / 6	4x5	20
4	Essay type questions from poetry	4 / 6	4x6	24
5	Critical analysis of couplets from Ghazals	4 / 6	4x4	16
			Total	100



BANGALORE UNIVERSITY

Jnana Bharathi Campus, Bangalore – 560 056

FACULTY OF ARTS

DEPARTMENT OF TELUGU

SYLLABUS

From the Year

2013 - '14

Dr.K.Asha Jyoti
Chairperson

Dept.of.Telugu
Jnanabharathi Campus
Bangalore University
Bangalore-56
Phone:08022961786
Email:ashajanardan@gmail.com

Date : 29-11-2012

Proceedings of the meeting of Board of Studies in Telugu (UG) held on 29-11-2012 in the Dept of studies in Telugu, J.B.Campus, Bangalore University, Bangalore – 56.

Members Present:

Signature

1. Dr.K.Asha Jyoti	Chairperson	Sd/-
2. Sri.S.Devendra	Member	Sd/-
3. Sri. O.Venkateswara Reddy	Member	Sd/-
4. Dr.T.Rajashekara Reddy	Member	Sd/-
5. Sri. N.Balaraju	Member	Sd/-
6. Dr.B.Mahalakshmi Kumari	Member	Sd/-
7. Dr. M. Ramanatham Naidu	External Member	Sd/-

K. Asha Jyoti

Dr. K. Asha Jyothi, M.A., Ph.D.,

Chair Person
Dept. of Telugu
J.B. Campus
Bangalore University
Bangalore - 560 056.

Proceedings of Board of studies in Telugu (UG)

The meeting of BOS in Telugu (UG) was conducted the Chairmanship of Dr.K.Asha jyoity in the Dept.of.Studies in Telugu on 29-11-2012 at 11 am and the following resolution were taken:-

1. The Board of Studies in Telugu (UG) has approved the panel of examiners for language and optional Telugu for the semester and annual schemes of 2013-2014. the panel copy has been attached herewith.
2. The Board of Studies in Telugu (UG) has resolved to change the syllabus and text books for all the courses of semester and annual schemes for both languages and optional Telugu for the academic year 2013-2014 and onwards.
3. The Board of Studies in Telugu (UG) has also resolved to change the present question paper pattern (for 100 marks) for all the courses of semester and annual schemes for both language and optional Telugu for the academic year 2013-2014.
4. The Board of Studies in Telugu (UG) has also resolved to get the prescribed text books printed by Prasaranga, Bangalore University, Bangalore in the following manner.
 - (i) I & II semester Degree (1st Year Annual) – 1 Text book (Prose and Poetry)
 - (ii) III & IV semester Degree (2nd Year Annual) – 1 Text book (Modren Poetry, Drama, Short stories and translation passages)
5. There are approximately 1,000 Telugu students studying in various Degree colleges under Bangalore University jurisdiction.
6. Nearly 90% of the students are dong self study for Telugu language due to lack of Telugu lectures in colleges.
7. Most of the students are facing problems due to lack of hostel facilities and hence they tend to discontinue their studies.
8. The Telugu students of degree (annual scheme) are not getting proper information regarding syllabus, text books and other facilities. Hence the information about the Degree students those who are appearing may be sent to the Chairperson of Dept of Telugu.
9. The above resolutions have been accepted by all members of the Board (BOS).

Note: Courses offered at Degree level B.A/B.Sc/BBM/BCA/BSc(FAD)

K. Asha Jyothi
14/12/13
Dr. K. Asha Jyothi, M.A., Ph.D.,
Chair Person
Dept. of Telugu
J.B. Campus
Bangalore University

BANGALORE UNIVERSITY (U.G.Courses)

TELUGU

Syllabus for 2013-2014

B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

I Semester

Marks :100

Poetry:

1. Nannaya - Baka Vadha (Adhi parvam, Sasthasvasam) 235 to 309
2. Thikkana - Mathrusapam (Aanusasanika Parvam, Prathamasvasam) 33 Poems
3. Srinadha - Vyasuni kopam (Kasi kandam Sapthamasvasam) 135 to 198
4. Ananthamathyudu - Govyagra Samvadam (Bhoja Rajeeyam 4, 6 Asvasam)

Prose

1. Rayaprolu Subbarap - Kavithvabhiruchulu Prathavi – Krothavi
2. G.V.Krishna Rao - Vemana
3. A.Venkatasubbaiah - Kannu
4. Nayani Krishnakumari - Telugu Samethalu

Grammar:

Telugu Sandhulu, Prosody, Alankaras

II Semester

B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Marks :100

Poetry:

1. Pothana - Gajendra Moksham
2. Allasani peddana - Indivarakshudu (Panchmasvasam)
3. Dhoorjati - Nathkirudu (Srikalahasthi mahathyam)
4. Kankanti Paparaju - Sitha vivasam (Uttara Ramanayam)

Prose

1. Delulapalli Krishnasastry - Maa Ullo Raavi Chettu
2. Rallapalli Ananthakrishna Sharma - Thyagannarari nadasudharasam
3. Sathyanarayana Chowdary - Nannaya – Chinnaya
4. Mallampalli Somasekhara Sharma - Reddy ugam – Telugu Vaangmayam

Grammar:

Telugu Sandhulu, Prosody, Alankaras

III Semester

B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Marks :100

Modern Poetry:

- | | | |
|-------------------------------|---|--------------------------|
| 1. Gurujada | - | Desa Bhakthi |
| 2. Gurram Jashuva | - | Govu |
| 3. Vishwanatha Sathyanarayana | - | Madhava varma |
| 4. Dr.C.Narayana Reddy | - | Desam Mundadugu Veyyaali |
| 5. Kodali Subba rao | - | Debbathinna lady |

Drama

- | | | |
|---------------------------|---|--------------|
| 1. Kallakuri Narayana Rao | - | Varavikrayam |
|---------------------------|---|--------------|
- Translation, General Composition

IV Semester

B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Marks :100

Modern Poetry:

- | | | |
|-----------------------------------|---|----------------------|
| 1. Srirangam Srinivas Rao | - | Sarathchandrika |
| 2. Abburi Ramakrishna Rao | - | Oridhvi Prasamsa |
| 3. Dr.Dasaradhi | - | Mahandhrodayam |
| 4. Kundurthi Anjaneyulu | - | Aaripothunna kumpati |
| 5. Devarakonda Balangadhara Tilak | - | Pradhana |

Non – Detailed Text:

- | | | |
|---------------------------|---|----------------------------|
| 1. Gopichand | - | Mamakaram |
| 2. Smt.Malathi Chandur | - | Dabha Iellu |
| 3. Kolakaluri Enoch | - | Kshama Bhiksha |
| 4. Madhuranthakam Rajaram | - | Aadavallu – Antharangam |
| 5. Narla Chiranjivi | - | Marri needa – Malle chettu |

Translation, General Composition

ANNUAL SCHEME

I Year B.A/B.Com

Marks: 100

Poetry:

1. Nannaya - Baka Vadha (Adhi parvam, Sasthasvasam) 235 to 309
2. Thikkana - Mathrusapam (Aanusasanika Parvam, Prathamasvasam) 33 Poems
3. Srinadha - Vyasuni kopam (Kasi kadam Saphthamasvasam) 135 to 198
4. Ananthamathyudu - Govyagra Samvadam (Bhoja Rajeeyam 4, 6 Asvasam)
5. Pothana - Gajendra Moksham
6. Allasani peddana - Indivarakshudu (Panchmasvasam)
7. Dhoorjati - Nathkirudu (Srikalahasthi mahathyam)
8. Kankanti Paparaju - Sitha vivasam (Uttara Ramanayam)

Prose

1. Rayaprolu Subbarap - Kavithvabhiruchulu Prathavi – Krothavi
2. G.V.Krishna Rao - Vemana
3. A.Venkatasubbaiah - Kannu
4. Nayani Krishnakumari - Telugu Samethalu
5. Delulapalli Krishnasastry - Maa Ullo Raavi Chettu
6. Rallapalli Ananthakrishna Sharma - Thyagannarari nadasudharasam
7. Sathyanarayana Chowdary - Nannaya – Chinnaya
8. Mallampalli Somasekhara Sharma - Reddy Yugam – Telugu Vaangmayam

Grammar:

Telugu Sandhulu, Prosody, Alankaras

II Year B.A/B.Com

Marks: 100

Modern Poetry:

1. Gurujada - Desa Bhakthi
2. Gurrām Jashuva - Govu
3. Vishwanatha Sathyanarayana - Madhava varma
4. Dr.C.Narayana Reddy - Desam Mundadugu Veyyaali
5. Kodali Subba rao - Debbathinna lady
6. Srirangam Srinivas Rao - Sarathchandrika
7. Abburi Ramakrishna Rao - Oridhvi Prasamsa
8. Dr.Dasaradhi - Mahandhrodayam
9. Kundurthi Anjaneyulu - Aaripothunna kumpati
10. Devarakonda Balagangadhara Tilak - Pradhana

Non – Detailed Text:

1. Gopichand - Mamakaram
2. Smt.Malathi Chandur - Dabha Iellu
3. Kolakaluri Enoch - Kshama Bhiksha
4. Madhuranthakam Rajaram - Aadavallu – Antharangam
5. Narla Chiranjivi - Marri needa – Malle chettu

Drama

1. Kallakuri Narayana Rao - Varavikrayam

Translation, General Composition

B.A.PART – II

OPTIONAL TELUGU FROM 2013 – 2014 ONWARDS

FIRST SEMESTER: PAPER - I

Marks: 100

Classical Poetry/ History of Telugu Literature:

Classical Poetry: The following Lesson from original books

1. Damayanthi Swayamvaramu – Nannaya Bhattu Mahabharathamu – Aranyaparvamu
Can to : II Poem No: 1 – 60.
2. Chiruthondanambhi Bhakti – Sreenathudu – Haravilasamu Can to: II
Poem No: 51 – 143.

History of Telugu Literature:

Prangnannaya Yugam to Sivakavi yugam – Thikkana and Errana

BOOKS FOR REFERENCE:

1. Andhra vangmaya charithra by Diwakarla Venkatavadhani, Published by Andhra Saraswatha parishath, Hyderabad – 1
2. Telugu Sahitya Sameeksha Vol.I & II by Prof.G.Nagaiah.
3. Andhra Sahitya charithra by Dwana Sastri

SECOND SEMESTER

B.A.PART – II OPTIONAL TELUGU PAPER – II

Marks:100

Classical Poetry & History of Telugu Literature:

Classical Poetry : The following lesions from original Books.

1. Vamana Charithra - Bhammera potana – Sree Maha Bhagavathamu Can to: VIII
Poem No: 1 – 76
2. Subhadra Parinayamu – Chemakuri Venkata Kavi – Vijaya Vilasamu Canto: III
Poem No:1 – 54

History of Telugu Literature: Sreenatha Yugam.

THIRD SEMESTER

B.A.PART – II OPTIONAL TELUGU PAPER – III

Marks:100

Modern Poetry & History of Telugu Literature:

1. Modern Poetry: ‘Firadousi; by Gurrām Jashuva.

2. History of Telugu Literature:

1. Prabandha Yugamu
2. Srikrishna Devarayulu
3. Peddana
4. Nandhi Thimmanna
5. Dhurjati
6. Dakshinandhra Yugam
7. Molla

Books for Reference:

1. Andhra vangmaya charithra by Diwakarla Venkatavadhani, Published by Andhra Saraswatha parishath, Hyderabad – 1
2. Telugu Sahitya Sameeksha Vol.I & II by Prof.G.Nagaiah.
3. Andhra Sahitya charithra by Dwana Sastri

FOURTH SEMESTER

B.A.PART – II OPTIONAL TELUGU PAPER – IV

Marks: 100

Drama & History of Telugu Literature:

1. **Drama:** Swapna vasavadatta Translated by Pottluri Narayana Das.
2. **History of Telugu Literature:**
 1. Sathakamu
 2. Adhunikandhra Kavithaa Lakshanamulu
 3. Natakaalu
 4. Navala
 5. Janapadam

Books For Reference:

1. Andhra vangmaya charithra by Diwakarla Venkatavadhani, Published by Andhra Saraswatha parishath, Hyderabad – 1
2. Telugu Sahitya Sameeksha Vol.I & II by Prof.G.Nagaiah.
3. Andhra Sahitya charithra by Dwana Sastri

FIFTH SEMESTER

B.A.PART – II OPTIONAL TELUGU PAPER – V

Marks: 100

History of Telugu Language:

The following Chapters from “Bhasha Charithra” by Sphurthisri

1. Prasthavika Prakaranamu
2. Siddhantha Prakaranamu
3. Uthpathi Prakaranamu
4. Artha Prakaranamu
5. Charithraka Prakaranamu

Books For Reference:

Telugu “Bhasha Charithra” – Published by Telugu Academy

B.A.PART – II OPTIONAL TELUGU PAPER – VI

Marks: 100

Cultural History of Andhras:

The following chapters from “Andhra Charithra Samskruthi” by Khandavalli Lakshmiranjanam and Balendu Sekharam.

1. Andhrula Samskruthi - Nirvachanamu.
2. Viyananagara Yugamu

Books for Reference:

“Andhra Samskruthi Charithra” by Etukuri Balarama Murthi.

SIX SEMESTER

B.A.PART – II OPTIONAL TELUGU PAPER – VII

Marks: 100

Grammar:

The following chapters from BALAVYAKARANAMU by Chinnayasuri.

1. Sanjna
2. Sandhi
3. Samasa

Books for Reference:

Balavyakaranamu – Ghantapatha Vyakhyanam by Vantharam Ramakrishna Rao.

B.A.PART – II OPTIONAL TELUGU PAPER – VIII

Marks: 100

PROSODY & POETICS

1. Prosody:

Sulakshanasaramu Chapters – Sanjna Prakaramu, Jathi Upajathi, Yathi and Prasa –
Published by V.Ramaswamy Sasthrulu & Sons.

Books for Reference:

Appakaveeya Bhava Prakashika by Ravuri Doraswami Sharma.

2. Poetics: “Andhra Chandralokamu”

Alankaras:

1. Upama
2. Uthpreksha
3. Sandeha
4. Drushtanthamu
5. Nidasana
6. Tulyayogitha
7. Samasokthi
8. Slesha
9. Vyajasthuthi
10. Vishama
11. Arthantra Nyasamu
12. Kavyalingamu

Books for Reference:

“Chandraloka Samunmeshamu” by Sphoorthisri.

SEMESTER SCHEME (UG): SCHEME OF EXAMINATION

FIRST SEMESTER: B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Summary of Poem (One out of Two Poems)	08
2. Reference to Context (Three out of Six)	15
3. One out of Two questions from Classical Poetry	14
4. One out of Two questions from Classical Poetry	14
5. One out of Two questions from Prose	14
6. One out of Two questions from Prose	14
7. Grammar:	
(a) Three out of Six – Sandhi	12
(b) Gana Vibhajana	04
(c) Alankara	05
Total	<u>100</u>

SECOND SEMESTER: B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)/Part - I

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Summary of Poem (One out of Two Poems)	08
2. Reference to Context (Three out of Six)	15
3. One out of Two questions from Classical Poetry	14
4. One out of Two questions from Classical Poetry	14
5. One out of Two questions from Prose	14
6. One out of Two questions from Prose	14
7. Grammar:	
(a) Three out of Six – Sandhi	12
(b) Gana Vibhajana	04
(c) Alankara	05
Total	<u>100</u>

THIRD SEMESTER: B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. (a) One out of Two Nataka Lakshana	08
(b) Reference to Context (Three out of Six)	15
2. One out of Two questions from Modern Poetry	13
3. One out of Two questions from Modern Poetry	13
4. One out of Two questions from Drama	13
5. One out of Two questions from Drama	13
6. One out of Three questions from General Essay	13
7. Translation: English to Telugu	<u>12</u>
Total	<u>100</u>

FOURTH SEMESTER B.A/B.Sc/B.Com/B.B.M/B.C.A/B.Sc. (FAD)

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Four out of Six Annotations	20
2. One out of Two questions from Poetry	13
3. One out of Two questions from Poetry	13
4. Two out of Four questions from Kathanikalu	26
5. One out of Three questions from General Essay	16
6. Translation: English to Telugu	<u>12</u>
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

FIRST SEMESTER: PAPER – I

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Samagra Vyakhya (One out of Two Poems)	18
2. Annotations (Three out of Six)	20
3. One out of Two from Poetry	20
4. One out of Two from Poetry	20
5. One out of Three from History of Telugu Literature	22
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

SECOND SEMESTER: PAPER – II

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Samagra Vyakhya (One out of Two Poems)	18
2. Annotations (Three out of Six)	20
3. One out of Two from Poetry	20
4. One out of Two from Poetry	20
5. One out of Three from History of Telugu Literature	22
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

THIRD SEMESTER: PAPER – III

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Annotations (Four out of Six from Modern Poetry)	24
2. One out of Two from Poetry	20
3. One out of Two from Poetry	20
4. One out of Two from History of Telugu Literature	18
5. One out of Two from History of Telugu Literature	18
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

FOURTH SEMESTER: PAPER – IV

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Nataka Lakshanalu (One out of Two)	08
2. Annotations (Three out of Six)	20
3. One out of Two from Drama	18
4. One out of Two from Drama	18
5. One out of Two from History of Telugu Literature	18
6. One out of Two from History of Telugu Literature	18
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

FIFTH SEMESTER: PAPER – V: HISTORY OF TELUGU LANGUAGE

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. One out of Two questions	20
2. One out of Two questions	20
3. One out of Two questions	20
4. One out of Two questions	20
5. One out of Two questions	20
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU

FIFTH SEMESTER: PAPER – VI: CULTURAL HISTORY OF ANDHRAS

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. One out of Two questions	20
2. One out of Two questions	20
3. One out of Two questions	20
4. One out of Two questions	20
5. One out of Two questions	20
Total	<u>100</u>

Handwritten: 11/10/13

B.A.PART II: OPTIONAL TELUGU
SIXTH SEMESTER: PAPER – VII: GRAMMAR

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Paribhashika Padalu (Four out of Six)	20
2. Suthras (Five out of Seven)	25
3. Sandhulu (Five out of Eight)	25
4. Samasalu (Six out of Eight)	18
5. Vivarana (Three out of Five)	12
Total	<u>100</u>

B.A.PART II: OPTIONAL TELUGU
SIXTH SEMESTER: PAPER – VIII: PROSODY AND POETICS

Scheme of Examination: Time: Three Hours:

Maximum Marks: 100

	Marks
1. Two out of Three Essay questions	24
2. Five out of Seven from Prosody	25
3. Yathulu (Three out of Five)	12
4. Three out of Five (Examples)	15
5. Three out of Five from Poetics	12
6. Four out of Six Examples from Poetics	12
Total	<u>100</u>



Handwritten: K. Asha Jyothi 14/12/13

Dr. K. Asha Jyothi, M.A., Ph.D.,
Chair Person
Dept. of Telugu
J.B. Campus
Bangalore University
Bangalore - 560 056.

Dr.K.Asha jyoti
Chair Person

Dept. of Telugu
Jnanabharathi Campus
Bangalore University
Bangalore.
Ph:080-22961786
Email:ashajanardan@gmail.com

Proceedings of the meeting of Board of Studies in Telugu (PG) held on 30-11-2012 in the Dept of Studies in Telugu, J.B.Campus, Bangalore University, Bangalore-560056.

Member Present:-

		Signature
1. Dr.K.Asha Jyoti	Chairperson	sd/-
2. Prof.C.Jayalakshmi	Member	sd/-
3. Prof. G.Balasbrahmanyam	External member	sd/-

Members Absent:-

1. Prof. S.Saratjyotsnarani	External Member
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The following business was transacted.

Resolutions:

1. The Board of studies in Telugu resolved to accept the Colloquium held in the Dept of Studies in Telugu on 29-11-2012
2. The Board of Studies in Telugu resolved to accept the Panel of Examiners for PG/Ph.D Programme for the year 2013-14.(The copy is enclosed)

K. Asha Jyoti
Dr. K. Asha Jyothi, M.A., Ph.D.,
Chair Person
Dept. of Telugu
J.B. Campus
Bangalore University
Bangalore - 560 056.

3. The Board of Studies in Telugu resolved to accept the Panel of Examiners placed by Prof.C.Jayalakshmi, with regard to her Ph.D Candidate T.A.Radha Krishna (List enclosed)

4. The Board of Studies in Telugu resolved the proposal and requested Bangalore University, Bangalore to allot 50% of M.A seats for out of the Karnataka state students.

5. Eligibility Criteria as per University Prospectus

A. Course Offered –M.A in Telugu

B. Nature of Course – Semester Scheme

C. Duration – 4 Semester (2 years) D. intake -20

Eligibility for M.A in Telugu

Graduates who have secured 40% in the aggregate of all subjects and 50% marks in the cognate subject in the qualifying University examinations are eligible to apply. Candidates with B.A, B.Sc., or B.Com degree are eligible to apply provided they have scored 55% in the Language concerned in the degree course.

Amendment:-

Students with rural background from rural areas in general apply for PG course in Telugu in Bangalore University, Bangalore. Most of them belong to SC/ST and BC categories and their percentage will be around 40% - 45%. Hence, the Board of Studies in Telugu decided to amend the eligibility criteria and resolved- Graduates who have secured 40 in the aggregate of all subjects and 45% marks in cognate subject in the qualifying University Examinations are eligible to apply provided they have scored 45% in the language concerned in the Degree Course.

Sd/- *[Handwritten Signature]*

Dr.K.Asha Jyoti

Chairperson

Dept of Telugu

B.U.B

Dr. K. Asha Jyothi, M.A., Ph.D.,

Chair Person

Dept. of Telugu

J.B. Campus

Bangalore University

Bangalore - 560 056.

B.A. - (OPTIONAL - Tourism and Travel Management)
Detailed Curriculum - (2004-2005)

(SEMESTER SCHEME)

3 years - 6 Semesters

SEMESTER I
PAPER I - TOURISM - FOUNDATION AND HISTORY

SEMESTER II
PAPER II - TOURISM PRODUCT

SEMESTER III
Paper III - TRAVEL AGENCY AND TOUR OPERATOR ORGANISATIONS

SEMESTER IV
Paper IV - TOURISM MANAGEMENT

SEMESTER V
Paper V - TOURISM POLICY
Paper VI - TOURISM IN INDIA

SEMESTER VI
PAPER VII - ENTREPRENEURSHIP DEVELOPMENT PROGRAM
PAPER VIII - EMERGING CONCEPTS FOR EFFECTIVE TOURISM DEVELOPMENT

Mohini Patel
28-06-2008

PAPER I

TOURISM - FOUNDATION AND HISTORY

1. **INTRODUCTION TO TOURISM AS AN INDUSTRY**
Definition, Meaning, Scope, Nature, Importance, Components, Typology, Motivating factors, Classification.
2. **ORIGINS OF TOURISM**
Tourism in ancient times. Forerunners of Modern Tourists - Peregrines - Traders by land and sea-pilgrims - Trips sprives to cure ailments. Influence of the French Revolution on Tourism.
3. **ASCENT OF TOURISM**
Beginnings of Tourism to 1849 - Tourism upto the First World War (the age of Coal and Steam) - origin of conducted Tourists Services of Thomas Cook - Tourism 1914-1935, Effects of the World Economic Depression on Tourism. Political Aspects of Tourism during Second World War, Impact of Second World War on Tourism, Growth and development of tourism as an industry in India since independence
4. **THE INTERNATIONAL TOURIST ORGANIZATIONS**
The International Union of Official Travel Organisation (IUOTO), International Union of National Tourist Propaganda (INUTPC), The World Tourism Organization (WTO), UFTAA, IATA, WTTC, PATA, ASTA.

BOOKS FOR REFERENCE:

29. Dennis L Foster - An Introduction to Travel and Tourism
30. Christopher J.Holloway - The Business of Tourism : Macdonald and Evans, 1983.
31. Stephan J Page - Tourism Management
32. Tapan K.Pandya and Sitikanita Mishra - Tourism Industry in India
33. A.K.Bhatia - Tourism Development, Principles and Practices : Sterling publishers (p) Ltd New Delhi.
34. Anand M.M - Tourism and Hotel Industry in India : Sterling publishers (p) Ltd New Delhi.
35. Kaul.R.H - Dynamics of Tourism : A trilogy Sterling Publishers (p) Ltd New Delhi.
36. IITM - Growth of Modern Tourism - monograph : IITM, New Delhi, 1989.
37. IITM - Tourism as an industry - monograph : IITM, New Delhi, 1989.
38. Burhat and Medlick - Tourism - Past, present and future
39. Wahab, S.E - Tourism Management, Tourism International Press, London 1986.
40. Brymer, Robert A - Introduction to Hotel and Restaurant Management : Hub publication, Co.,Lowa, 1984.
41. Riccline J.R.Brent - Travel and Tourism Hospitality Research, London, 1982.
42. Surinder Aggarwat - Travel agency.
43. A.K Bhatia - Introduction to Tourism, New Delhi, 2002

PAPER II

TOURISM PRODUCT

1. **RESOURCES: NATURAL AND MOUNTAIN**
Tourist Resources - Definition and Differentiation, Natural Tourist Resources - Rich Diversity in Landform, Landscape, Outstanding Geographical features, Climate, Water Bodies, Flora, Fauna. Mountain Tourist Resource - with special reference to the Himalayas and other Hill Stations across India
2. **RESOURCES: ISLANDS, BEACHES AND DESERTS**

60032

Islands and Beaches - with special reference to Andaman and Nicobar Islands, Goa, Lakshadweep and other potential destinations. Coastal Areas, Desert Resources in India - Geological structure, existing facilities, Safaris.

3. SOCIO CULTURAL RESOURCES I

Performing Arts of India, Classical Dances and Dance Styles, Centre of Learning and Performances. Indian Folk Dances. Music and Musical Instruments - Schools of Indian Music. Handicrafts of India as potential Tourist Resources.

4. SOCIO CULTURAL RESOURCES II

Fairs and Festivals - Social, Religious, and Commercial, Tourist Promotional Fairs - Kite Festival, White Water Festival, Snake Boat Race, etc. Indian Folk Culture, Indian Folk Culture - Custom and Costumes, Settlement Patterns, Religious Observation, Folk-lore and Legends

5. HISTORICAL RESOURCES

Architectural Heritage of India - India's Architectural Styles adopted over the ages. Historic Monuments of Tourist significance, ancient medieval and modern their spatial and religious dimensions. Important Historic / Archaeological sites, Museums, Art Galleries, Libraries their location, assets and characteristics. Religious Shrines / Centres - Hindu, Buddhist, Jain, Sikh, Muslim, Christian, and Others. Centres - Ayurveda, Yoga, Meditation.

Note: A tour of local places of interest should be arranged

BOOKS FOR REFERENCE:

14. Percy Brown - Indian Architecture Hindu and Buddhist period.
15. Dennis L Foster - An Introduction to Travel and Tourism
16. Tapan K. Panda and Sitikantha Mishra - Tourism Industry in India
17. Harle J.C - The Art and Architecture of Indian Sub Continent.
18. Stephan J Page - Tourism Management
19. Bhartiya Vidya Bhawan - Imperial Unity
20. Bhartiya Vidya Bhawan - Classical age.
21. Acharya Ram - Tourism and Cultural Heritage of India: ROSA Publication (Jaipur, 1986)
22. Basham A.L. - The Wonder that was India: Rupa and Co. Delhi-1988.
23. The Gazette Of India - History and Culture, Vol.2, publication division, Ministry of Information and Broadcasting, Government of India, 1988.
24. Hussain A.K. - The National Culture of India, National Book Trust, New Delhi-1987.
25. Mukerjee R.K. - The Culture and art of India-George Allen Unwin Ltd, London 1959.

9886692023 by *[signature]*

Paper III --

TRAVEL AGENCY AND TOUR OPERATOR ORGANISATIONS

1. **TRAVEL AGENCY AN INTRODUCTION**
Definition, Functions, Organizational Structure of Travel Agencies and Tour Operators.
2. **TYPES OF TRAVEL AGENCIES, DUTIES, AND SERVICES**
Types of Travel Agencies and Tour Operators. Procedures to become a Travel Agency or
Tour Operator in India, Duties and Responsibilities of Staff and Managers, Services and Products
offered by Travel Agencies and Tour Operators. Revenue or Income of the Travel Agents and
Tour Operators.
3. **AIRLINE TICKETING**
Introduction to Airline Ticketing, Airline Geography, Domestic Air Ticketing and Fare
Calculation, Airfare Calculation
4. **RAILWAYS AND AIRLINES**
Indian Railways, Brief Study of International Railways, Indian Airlines, Private Airlines in India,
The Cruise Industry
5. **INTERNATIONAL TRAVEL REGULATIONS**
Inbound and Outbound Regulations, Passports, Visa, Permits, Economic Regulations, Customs,
Airport Tax, Currency Regulations, Health Regulations.

BOOKS FOR REFERENCE:

23. Mohinder Chaud - Travel Agency Management An Introductory Text.
24. Dennis L Foster - An Introduction to Travel and Tourism
25. Stephan J Pace - Tourism Management
26. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
27. Merissen Jome.W - Travel Agents and Tourism.
28. David H.Howel - Principal and Methods of scheduling reservations(national publishers) 1987.
29. Agarwal, Surinder - Travel Agency Management (Communication India 1983)
30. Geo, Chack - Professional Travel agency management: Prentice Hall London,1990.
31. Bhatia A.K - Tourism Development-principles and policies sterling publishers, 1991 New Delhi.
32. Iliam Coriye - Travel in India.
33. National Publishers - The World of Travel, National Publishers Delhi 1979.

TOURISM MANAGEMENT

1. CHARACTER OF MODERN TOURISM

Prevailing types of tourism, Changes in the facilities, trade unions and tourism. Means of accommodation (hostel, dormitory, prices etc.)

2. TOURISM MARKETING

Service dimension and characteristics of tourism product, Marketing functions in tourism, promotion of tourism, Customer Relation Management (CRM), Public Relations and Communication for Tourism Managers

3. TOURISM ACCOMMODATION

Essentials of Tourist accommodation and catering unit, Primary and Secondary forms of Accommodation, Hotels, Motels, Resorts, Floatels, Classification of Hotels. Basis for Classification. Room Rates, Types, Reservation and Billing Procedures etc.

4. TRANSPORTATION

Importance and its impact on Tourism - modes of Transport (Railways, roads, shipping and Airways) journey-type of ticket and principles of ticketing. Travel agency (advisory bureau, customs office, passport office, leading travel agencies).

5. MARKETING STRATEGIES AND LINKAGES

Developing Marketing Strategies for Service Firms. Linkage of Marketing in Tourist components - Travel Agency, Tour Operators, Hotels and other forms of Accommodation, Catering, Food and Nutrition

Note: The students shall have institutional training for 3 weeks at leading Tourist offices, customs office, tourist hotels and agencies.

BOOKS FOR REFERENCE:

27. P C Sinha - Tourism Marketing
28. Dennis L. Foster - An Introduction to Travel and Tourism
29. Stephan J Page - Tourism Management
30. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
31. Kotler Philips - Marketing Management, PHI, New Delhi.
32. Maccarthy D.K.J, Basic Marketing-A Management Approach.
33. Douglas Foster - Travel and Tourism Management.
34. Negi.M.S - Tourism and Hoteliering.
35. Wahab.S.Grampter - Tourism Marketing, Tourism International Press, London 1976.
36. Stephan.F.Witt - Tourism Marketing and Management Handbook, prentice Hall, New York, 1985.
37. Renal A. Nykiel L - Marketing in Hospitality Industry (2nd ED.) Van Nestrland Reinhold,1986.
38. Maclean, Hunter - Marketing Management (Tourism in your business), Canadian Hotel and Restaurant Ltd, 1984.
39. Kenneth E.Clow and David L.Kurtz - Services Marketing, Biztantra Publications.

TOURISM POLICY

1. TOURISM POLICY

Management Strategies, Tourism Policy Analysis, Tourism Legislation Beginnings of statistical measurement in Tourism Statistics of Domestic Tourism – Holiday Surveys (accommodation and passenger surveys) – Statistics of International surveys.)

2. TOURISM PLANNING

Features of Tourism planning, Policy of Tourism – Leisure and Resources – Geographical pattern. Infrastructure and facilities – Planning in Urban and Rural area – Conservation and Management of places of Tourist attraction.

3. ECONOMICS OF TOURISM

Impact of tourism on national and international economic activity, Tourism and international trade and balance of payments

4. IMPACTS AND WORLD HERITAGE CENTERS

- Impacts of Tourism - Economical, Social, Physical, and Environmental
- World Heritage Tourist Centres, Concept and list

BOOKS FOR REFERENCE:

21. Ratandeep Singh - National Eco-Tourism and Wildlife Tourism
22. Prabhas Chandra - International Eco-Tourism
23. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
24. Stephen J Page - Tourism Management
25. Praveen Sethi - Handbook on Sustainable Tourism
26. Reports of World Tourism Organization.
27. State Tourism Policy of Karnataka, Andhra Pradesh, Tamilnadu, Kerala, Rajasthan, Assam

TOURISM IN INDIA

1. **HISTORY OF TOURISM IN INDIA**
Tourism during the golden era and the great civilisations, Impact of invasions and foreign rule in India, Development of tourism in India since 1947
2. **INDIA AS A TOURIST DESTINATION**
India – A Land for all reasons and all seasons. Tourism resources of India – Richness and diversity of tourism resources of India, Branding of India and Indian states, Promotion of tourism in India
3. **TOURIST FACILITIES IN INDIA**
Sargent Committee Report 1945, Indian Constitution and Tourism, Tourist Organisation, National Tourist Organisation, Creation of the Directorate General of Tourism. Regional Offices Indian Tourism Development Corporation. Accommodation industry-Hotel standards and rate structure committee 1957, shortage of hotel accommodation.
4. **FOREIGN TOURISTS AND INDIAN VALUE SYSTEM**
Indian Airways. Indian Railways, Defects in Indian Tourism. Unsatisfactory transportation levels of Tourist organisation, National/Regional.

Note: A tour of about three weeks to important places of Art and Architecture, Sea shores and places of historic importance shall be arranged for the students.

BOOKS FOR REFERENCE:

1. Percy Brown - Indian Architecture Hindu and Buddhist period.
2. Dennis L. Foster - An Introduction to Travel and Tourism
3. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
4. Harle J.C - The Art and Architecture of Indian Sub Continent.
5. Stephan J Page - Tourism Management
6. Bhartiya Vidya Bhawan - Imperial Unity.
7. Bhartiya Vidya Bhawan - Classical age.
8. Acharya Ram - Tourism and Cultural Heritage of India: ROSA Publication (Jaipur, 1986)
9. Basham.A.L - The Wonder that was India: Rupa and Com Delhi-1988.
10. The Gazette Of India - History and Culture, Vol.2, publication division, Ministry of Information and Broadcasting, Government of India, 1988.
11. Hussain.A.K - The National Culture of India, national Beek Trust, New Delhi-1987.
12. Mukerjee.R.K - The Culture and art of India-George Allen Unwin Ltd, London 1959.

PAPER VII

ENTREPRENEURSHIP DEVELOPMENT PROGRAM

1. **ENTREPRENEURSHIP**
Introduction to Entrepreneur, Entrepreneurship and Enterprise - Importance and relevance of the entrepreneur - Factors influencing entrepreneurship - Pros and Cons of being an entrepreneur - Women entrepreneurs, problems and promotion - Types of Entrepreneurs - Characteristics of a successful entrepreneur - Competency requirement for entrepreneurs - Awareness of self competency and its development

2. **SMALL SCALE INDUSTRIES**

Small scale industries/ Tiny industries/Ancillary industries/ Cottage Industries - definition, meaning, product range, capital investment, ownership patterns - Importance and role played by SSI in the development of the Indian economy - Problems faced by SSI's and the steps taken to solve the problems - Policies governing SSI's.

3. **STARTING A SMALL INDUSTRY**

To understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture - location, clearances and permits required, formalities, licensing and registration procedures - Assessment of the market for the proposed project - To understand the importance of financial, technical and social feasibility of the project.

4. **PREPARING THE BUSINESS PLAN (BP)**

What is a BP? Why is it important? Who prepares it?
Typical BP format

- a. Financial aspects of the BP
- b. Marketing aspects of the BP
- c. Human Resource aspects of the BP
- d. Technical aspects of the BP
- e. Social aspects of the BP

Preparation of BP - Common pitfalls to be avoided in preparation of a BP

5. **IMPLEMENTATION OF THE PROJECT**

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's, and Tax Concessions - Assistance for obtaining raw material, machinery, land and building and technical assistance - Industrial states - role and types

6. **SICKNESS IN SSI'S**

Meaning and definition of a sick industry - Causes of industrial sickness
Preventive and remedial measures for sick industries

BOOKS FOR REFERENCE:

41. Mark. J. Dollinger, Entrepreneurship - Strategies and Resources, Pearson Edition.
42. Udai Pareek and T.V. Rao, Developing Entrepreneurship
43. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
44. Srivastava, A Practical Guide to Industrial Entrepreneurs
45. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
46. Bharusali, Entrepreneur Development
47. Vasanth Desai, Management of Small Scale Industry
48. Vasanth Desai, Problems and Prospects of Small Scale Industry
49. CSV Murthy, Entrepreneurial Development
50. Entrepreneurial Development - Dr. Anil Kumar, S.C. Poornima, Miani K. Abraham, Jayashree K.

PAPER VIII

EMERGING CONCEPTS FOR EFFECTIVE TOURISM DEVELOPMENT

1. RELEVANT CONCEPTS AND APPROACHES FOR EFFECTIVE TOURISM DEVELOPMENT

- National Development Council Report on Tourism Development
- National Action Plan 1992 Onwards
- Policies on Tourism and Civil Aviation
- Tourist Traffic and its improvisation
- Destination Development

2. SUSTAINABLE AND ECO-TOURISM

- Sustainable Tourism and Eco-Tourism – Definition, Functions, Objectives
- National and State Level Eco-Tourism Guidelines

3. WILDLIFE

- National Wildlife Tourism – India
- National and International Guidelines for Wildlife Tourism

4. TOURISM POLICY

- Management Strategies, Tourism Policy Analysis, Tourism Legislation

5. CRM, PR AND COMMUNICATION FOR TOURISM MANAGERS

- Customer Relation Management – Fundamentals
- Importance of Public Relation and Communication Skill in Tourism

BOOKS FOR REFERENCE:-

- Ratandeeep Singh - National Eco-Tourism and Wildlife Tourism
- Prabhas Chandra - International Eco-Tourism
- Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
- Stephan J Page - Tourism Management
- Praveen Sethi - Handbook on Sustainable Tourism
- National Development Council Report.
- National Action Plan, 1992.
- Reports of World Tourism Organization.
- Report-Workshop on Tourism Legislation-August 10-11, 1987. IITTM, New Delhi.
- Report-Workshop on Tourism Legislation-February 23-23, 1988

B.A. / B.Sc. – ECONOMICS
SEMESTER SYSTEM – 2003 ONWARDS
SYLLABUS
(TOTAL : 06 - SEMESTERS)

DEPARTMENT OF ECONOMICS
BANGALORE UNIVERSITY
JNANA BHARATHI, BANGALORE – 560 056

Preamble

In order to meet the needs of the dynamic changes taking place around us and also to follow guidelines given by the University Grants Commission, the semester system for B.A. / B.Sc. - Economics has been proposed to be introduced from the academic year 2003 onwards.

A committee of expert academicians was formed to revise the syllabus for B.A. / B.Sc. in Economics on 16-04-2003. Following are the members of the committee who have restructured the syllabus for BA / B.Sc. - Economics.

The committee has submitted the revised syllabus and scheme of examination after deliberating over the above issues from 16-04-2003 to 23-04-2003

Members of the Committee:

Sl.No.	Name of the Member	Name of the College
1	Dr. R.Veerachamy	Professor & Chairman Dept. of Economics BUB.
2	Prof. Lorna Raymond,	Mount Carmel College, Bangalore
3	Prof. Ramani Nair	Maharani's Arts College, Seshadri Road, Bangalore - 1
4	Dr. Padmini Rao	The National College, Basavanagudi, Bangalore - 4
5	Prof. S.K. Jayanthi	NMKRV College for Women, Jayanagar, Bangalore - 11
6	Sheshadri G.B.	NMKRV College for Women, Jayanagar, Bangalore - 11
7	Prof. Iravathi N	BMS College for Women, Basavanagudi, Bangalore - 4
8	Prof. M.M Guptha	Seshadripuram College, Bangalore - 1
9	Prof. Krishnaveni	Seshadripuram College, Bangalore - 1
10	Prof. Shobha S.K.	APSE College, N.R. Colony, Bangalore - 19
11	Prof. Nazarath Zabeen	Hasnath College, Lalbagh Road, Bangalore
12	Prof. Subhashini Muthukrishna	St. Joseph College, Bangalore
13	H.R. Krishna Murthy	The National College, Jayanagar, Bangalore - 4
14	Prof. Gangaiah	Vijaya Evening College, Basavanagudi, Bangalore - 4
15	Prof. Venu Gopal B.N.	The National College, Basavanagudi, Bangalore - 4.
16	Prof. B.R. Subbanna	V.V. Puram College of Arts & Commerce, Bangalore - 4

BANGALORE UNIVERSITY						
Department of Economics						
Scheme for BA/B.Sc Semester Degree course in Economics						
Year	Semester	Paper	Title of the Paper	Internal Marks	Theory Marks	Total
I Year	I SEM	1.1	Micro Economics	10	90	100
	II SEM	2.1	Macro Economics	10	90	100
II Year	III SEM	3.1	Quantitative Methods	10	90	100
	IV SEM	4.1	International Economics	10	90	100
III Year	V SEM	5.1	Indian Economy-I	10	90	100
	Elective Papers			10	90	100
	V SEM	5.2 (a)	Development Economics-I			
	V SEM	5.2 (b)	Economic Doctrines-I			
	V SEM	5.2 (c)	Environmental Economics-I			
	VI SEM	6.1	Indian Economy-II	10	90	100
	Elective Papers			10	90	100
	VI SEM	6.2 (a)	Development Economics-II			
	VI SEM	6.2 (b)	Economic Doctrines-II			
	VI SEM	6.2 (c)	Environmental Economics-II			

QUESTION PAPER PATTERN

Maximum Marks for Theory: 90

Internal Marks: 10

PART- A (Conceptual) - (2 x 10 = 20 Marks)

The student shall answer 9 out of 12 questions. The answers to each question shall not exceed 5 to 6 sentences. Due weightage to be given to all modules.

PART- B (Analytical) - (5 x 5 = 25 Marks)

The student shall answer 5 out of 7 questions. This part shall test the analytical ability of the student. The answers to each question shall be about 15 to 20 sentences. This part should have a minimum of one question from each module.

PART-C (Descriptive) - (15 x 3 = 45 Marks)

The student shall answer 3 out of 5 questions. This part shall test the in-depth understanding of the subject, by the student. Each answer shall not exceed four pages of normal handwriting. This part should have at least one question from each module.

Instructions:

1) To Teachers:

The scope of the topic is to be arranged in accordance with the number of hours specified against each topic.

2) To the Board of Examiners:

The selection of questions for each part is to be based on the number of hours allotted to each topic.

I - SEMESTER
MICRO ECONOMICS – PAPER- 1.1
(Compulsory paper)

COURSE OBJECTIVES:

- ▶ *To help students acquire knowledge of some of the important principles and theories of microeconomics.*
- ▶ *To provide the foundation for the study of other branches of economics.*
- ▶ *To develop analytical, reasoning and graphical presentation skills.*
- ▶ *To enable the student to appreciate the utility of economics in day-to-day life.*

METHODOLOGY:

- ▶ *Emphasis to be given to teaching concepts.*
- ▶ *Theories and laws to be taught with the help of tables and diagrams*
- ▶ *Questions to be designed to evaluate a student's ability to use diagrams, explain concepts and evaluate at theoretical levels.*

MODULE - I MICROECONOMICS AND THEORY OF CONSUMPTION

- Scope of microeconomics, limitation and uses. Positive and Normative economics.
- Problem of choice – wants and resources. Basic economic problems common to all economies. Role of price mechanism in a mixed economy. [4 Hrs.]
- Cardinal analysis – Law of diminishing marginal utility, Law of equi-marginal utility. Consumers Surplus (Marshallian). [3 Hrs.]
- Ordinal utility analysis indifference curves – properties, map, price line, consumer equilibrium, price effect, income effect and substitution effect. [5 Hrs.]

[Total : 12 Hours]

MODULE - II DEMAND AND SUPPLY

- Law of demand, Reasons for the downward slope of demand curve, exception to the law, changes in demand. [4 Hrs.]
- Elasticity – kinds, types of price elasticity with diagram, factors determining price elasticity, methods of measurement – per centage method, arc-method, total outlay – method. [6 Hrs.]
- Law of Supply, Changes in supply. [2 Hrs.]

[Total : 12 Hours]

MODULE - III THEORY OF PRODUCTION

- Production function, Law of variable proportions – short-run and long-run. Laws of returns, economies of scale, Iso-quants, Isocosts, production equilibrium. [6 Hrs.]
- Cost – opportunity cost, Real cost, Types – short-run, long-run – Average, Marginal, Fixed, Variable (with diagrams), Long run cost curve. [4 Hrs.]
- Revenue – Average, Marginal, Total. [2 Hrs.]

[Total : 12 Hours]

MODULE - IV PRODUCT PRICING

- Concepts of firm, industry, equilibrium. [1 Hr.]
- Perfect competition, price and output determination, and role of time element in the theory of price determination. [3 Hrs.]
- Monopoly, price output determination, price discrimination. [3 Hrs.]
- Monopolistic competition, Price and output determination, Selling costs, Product differentiation, Wastes in monopolistic competition. [3 Hrs.]
- Oligopoly, features, Duopoly, Monopsony. [2 Hrs.]

[Total : 12 Hours]

MODULE - V FACTOR PRICING

- Nature of factor markets, Marginal productivity theory of distribution. [2 Hrs.]
- Rent – Demand and supply theory, Quasi rent, Transfer earning. [2 Hrs.]
- Wages – Reasons for wage differentials, collective bargaining. [2 Hrs.]
- Interest – Classical, Neo-classical, Keynesian. [2 Hrs.]
- Profit – Dynamic, Innovation, Risk and Uncertainty theory. [2 Hrs.]

READING LIST:

1. Bach, G.L. (1977), *Economics*, Prentice Hall of India, New Delhi
2. Gould, J.P. and Edward P.L. (1996), *Microeconomic Theory*, Richard, Irwin, Homewood.
3. Henderson J and R.E. Quandt (1980), *Microeconomic Theory: A mathematical approach*, McGraw Hill, New Delhi.
4. Heathfield and Wibe (1987), *An Introduction to Cost and Production Functions*, Macmillan, London.
5. Koutsoyiannis, A. (1990), *Modern Microeconomics*, Macmillan.
6. Lipsey, R.G. and K.A. Chrystal (1999), *Principles of Economics* (9th Ed.), Oxford University Press, Oxford.
7. Mansfield, E. (1997), *Microeconomics* (9th Ed.), W.W. Norton and Company, New York
8. Ray, N.C. (1975), *An Introduction of Microeconomics*, Macmillan Company of Indian I.td., New Delhi.
9. Ryan, W.J.L. (1962), *Price Theory*, Macmillan and Co. Limited, London.
10. Samuelson, P.A. and W.D. Nordaus (1998), *Economics*, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (1972), *A Textbook of Economic Theory*, ELBS and Lognman Group, London.
12. Varian, H.R. (2000), *Intermediate Microeconomics: A Modern Approach* (5th Ed), East West Press, New Delhi.

II- SEMESTER MACRO ECONOMICS – PAPER – 2.1

COURSE OBJECTIVES:

- ▶ To enable the student to learn the well formulated principles of macro economics
- ▶ To help the student to understand the integrated working of a modern economy.
- ▶ To provide the basis for the study of other branches of economics.
- ▶ To help the student to appreciate the role of government in the economic functioning of a nation.

MODULE - I MACRO ECONOMICS AND NATIONAL INCOME

- Macro economies, micro-macro paradox, importance and uses of macroeconomics. [3 Hrs.]
- Circular flow of income and wealth [2 Hrs.]
- National income – concepts, methods of calculating national income, problems in the estimation of national income [5 Hrs.]

[TOTAL: 10 Hours]

MODULE - II CLASSICAL AND KEYNESIAN ECONOMICS

- Classical theory of income – output and employment. Say's law of market. Wage price flexibility, critical evaluation [3 Hrs.]
- Keynesian theory of income, output and employment. Effective demand and supply. Consumption function, average and marginal propensity to consume, factors affecting consumption function, investment function – Marginal efficiency of capital. Multiplier, Accelerator, comparison between Classical and Keynesian theories [11 Hrs.]

[TOTAL: 14 Hours]

MODULE - III MONETARY ECONOMICS

- Value of money – cash transaction, cash balance approach – Marshall, Keynes. index numbers – simple weighted. [5 Hrs.]
- Commercial banking – portfolio management, credit creation. [3 Hrs.]
- Central banking, methods of credit control-quantitative, qualitative. [5 Hrs.]

[TOTAL: 13 Hours]

MODULE - IV PUBLIC FINANCE

- Public finance meaning, branches, Principle of maximum social advantage. Sources of public revenue. Canons of taxation – Direct and Indirect taxes. Impact and Incidence.
- Effects of taxation on production, consumption and distribution. [8 Hrs.]
- Public expenditure – causes of growth of public expenditure, Effects of public expenditure on production, consumption and distribution [2 Hrs.]
- Public debt – Sources of public borrowing Methods of debt redemption [2 Hrs.]
- Budget – types. [1 Hr.]

[TOTAL: 13 Hours]**MODULE - V INFLATION**

- Meaning, approaches- demand-pull and cost push. Effects of inflation on production, consumption and distribution.
- Inflationary gap
- Methods to control inflation – fiscal, monetary and administrative measures
- Trade cycles – phases

[TOTAL: 10 Hours]**READING LIST:**

- 1) Ackley, G. (1976), *Macroeconomics, Theory and Policy*, Macmillan Publishing Company, New York.
- 2) Day, A.C.L. (1960), *Outline of Monetary Economics*, Oxford University Press, Oxford.
- 3) Gupta, S.B. (1994), *Monetary Economics*, S.Chand and Co., Delhi.
- 4) Heijdra, B.J. and F.V. Ploeg (2001), *Foundations of Modern Macroeconomics*, Oxford University Press, Oxford.
- 5) Lewis, M.k. and P.D. Mizan (2000), *Monetary Economics*, Oxford University Press New Delhi.
- 6) Shapiro, E. (1996), *Macroeconomic Analysis*, Galgotial Publications, New Delhi.
- 7) Dillard, D. (1960), *The Economics of John Maynard Keynes*, Crosby Lockwood and Sons, London.
- 8) Hanson, A.H. (1963), *A Guide to Keynes*, McGraw Hill, New York.
- 9) Higgins, B.(1963), *Economic Development: Principles, Problems and Policies*, Central Book Depot, Allahabad.
- 10) Keynes, J.M. (1936), *The General Theory of Employment, Interest and Money*, Macmillan, London.
- 11) Kindleberger, C.P. (1958), *Economic Development*, McGraw-Hill Book Company, New York
- 12) Lucas, R. (1981), *Studies in Business Cycle Theory*, MIT Press, Cambridge, Massachusetts.
- 13) Meier, G.M. and R.E. Baldwin (1957), *Economic Development: Theory, History and Policy*, Wiley & Sons Inc., New York.
- 14) Powelson, J.P.c. (1960), *National Income and Flow of Funds Analysis*, McGraw Hill, New York.

III- SEMESTER**QUANTITATIVE METHODS – PAPER- 3.1****(Compulsory paper)****COURSE OBJECTIVES:**

- ▶ To help students to acquire some Basic skills in both mathematics and statistics.
- ▶ To develop analytical, reasoning and graphical presentation skills.

METHODOLOGY:

- ▶ Emphasis to be given on teaching basic concepts and definitions.
- ▶ Theories and laws to be taught with the help of simple mathematics and diagrams

- **Question to the designed to evaluate a student's ability to use diagrams, explain concepts and evaluate at theoretical levels.**

MODULE – I

- Functions: Linear, Quadratic exponential and logarithmic functions and their simple uses in economics. Market equilibrium –effects of taxes on equilibrium price and quantity. Simple linear Macro models.
- Interest compounding and exponential functions.
- Matrices: Types of matrices-Elementary operations on matrices. Inverse matrix. Methods of solving simultaneous equations using matrices. Determinants and their uses in solving simultaneous equations.

[TOTAL: 15 Hours]

MODULE – II

- Calculus: Simple derivative rules-Partial derivatives. Simple rules of Integration.
- Elasticity theorems- Price Income and cost elasticity. Partial Elasticities of demand-Substitutes and compliments
- Calculation of Total revenue and Total costs curves from their respective MR and MC. Consumer and producer surpluses.
- Maxima and Minima of functions: Simple applications from microeconomics.

[TOTAL: 15 Hours]

MODULE – III

- Definition of statistics: Primary and secondary data. Methods of collecting primary data. Tabulation and presentation of data- graphical representation data.
- Measures of central tendency: Mean, Median and Mode- Geocentric and harmonic means.
- Measures of dispersion: Range, Mean deviation, Inter quartile range and standard deviation.

[TOTAL: 15 Hours]

MODULE – IV

- Correlation analysis: Karl Pearson Coefficient of Correlation. Spear man's Rank correlation.
- Regression analysis: Y on X and X on Y regression calculations.
- Time series analysis: Components of time series-Methods of decomposing trend, Seasonal and cyclical components.

[TOTAL: 15 Hours]

MODULE – V

- Index Numbers: Fixed and Chain based simple relatives. Calculation of composite index numbers.
- Index numbers by aggregates: Laspeyer's, Paache's, and Fisher's index numbers. Time and factor reversal tests.

[TOTAL: 15 Hours]

BASIC READING LIST

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
2. Veerachamy R (2002) Quantitative Methods for Economists New Age International Publishers, New Delhi.
3. Black, J. and J.F. Bradley (1973), Essential Mathematics for Economists, John Wiley and Sons.
4. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics (3rd Edition), McGraw Hill, New Delhi.
5. Croxton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
6. Gupta, S.C. and V.K. Kapoor (1993), Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.

7. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book, London.

IV- SEMESTER
INTERNATIONAL ECONOMICS – PAPER – 4.1
(Compulsory paper)

COURSE OBJECTIVES:

- *To enable the students to learn the fundamental theories of international economics.*
- *To enable the students to apply the knowledge gained from the study of micro and macroeconomics in the field of international economics.*
- *To enable the students to understand the international trade system as it exists today.*

MODULE – I THEORIES OF INTERNATIONAL TRADE

- Meaning and importance of international trade [1 Hr.]
- Distinction between interregional and international trade [1 Hr.]
- Classical theories of international trade – Adam Smith and David Ricardo. [3Hrs.]
- General equilibrium analysis – production possibility curve – community indifference curve [3 Hrs.]
- Heckscher-Ohlin theory – equilibrium under increasing cost. [3 Hrs.]
- Factor price equalization theorem – Offer curves – meaning, reciprocal demand. [1 Hr.]

[TOTAL: 14 Hours]

MODULE – II TRADE AND COMMERCIAL POLICY

- Terms of trade – meaning and concepts – factors – gross, net income terms of trade. [4 Hrs.]
- Trade and development – Prebisch-Singer thesis [2 Hrs.]
- Free trade Vs protection (arguments for and against) [2 Hrs.]
- Tariffs – meaning, types, effects [4 Hrs.]
- Quotas – meaning and types [1 Hr.]

[TOTAL: 14 Hours]

MODULE – III FOREIGN EXCHANGE

- Foreign exchange – meaning & determination of foreign exchange rate [1Hr.]
- Demand and Supply theory of foreign trade (Balance payment theory) [2 Hrs.]
- Purchasing power parity theory [2 Hrs.]
- Fixed and Flexible exchange rate – merits and demerits [3 Hrs.]
- Balance of trade and Balance of payment – causes for disequilibrium of balance of payment – methods to correct disequilibrium [4 Hrs.]

[TOTAL: 13 Hours]

MODULE – IV INTERNATIONAL MONETARY INSTITUTIONS

- International Monetary Fund [IMF] – Objectives – functions, international liquidity [3 Hrs.]
- World Bank [2 Hrs.]
- Asian Development Bank [ADB] [1 Hr.]
- International Development Association. [IDA] [1 Hr.]
- International Financial Corporation. [IFC] [1 Hr.]

[TOTAL: 8 Hours]

MODULE – V ECONOMICS OF INTEGRATION

- Meaning of economic integration [1 Hr.]
- Theory of customs union – partial equilibrium analysis – European Union – objectives and working – Euro currency [2 Hrs.]
- South Asian Association for Regional Co-operation [SAARC]. [1 Hr.]
- Foreign Capital – Role and sources of foreign capital
 - Foreign Direct Investment [F.D.I.]
 - Foreign Institutional Investment [F.I.I.]

- Multinational Corporation (M.N.C.) [3 Hrs.]
- General Agreement on Trade and Tariff [GATT] – origin – Uruguay round (Dunkel draft) [2 Hrs.]
- World Trade Organisation [W.T.O] – Factors leading to Globalization. [2 Hrs.]

[TOTAL: 13 Hours]

READING LIST:

1. Kindle Berger C.P. *International Economics*
2. Keenan P.B. *The International Economy*
3. Krugman P.R. and M. Obstfeld – *International Economics, theory and policy*
4. Ellsworth P – *International Economics*
5. Mannur H.G. – *International Economics*
6. M.I. Jhingran – *International Economics*

V- SEMESTER INDIAN ECONOMY – PAPER- 5.1 (PART-A) (Compulsory paper)

COURSE OBJECTIVES

- To enable a student to have an overview of the working of the Indian economy.
- To enable a student to understand the changing trends in the Indian economy.
- To enable a student to understand the leading issues in India's economic development

MODULE I STRUCTURE OF INDIAN ECONOMY

- India – developing economy, features, economic and non- economic [3 Hrs]
- National income – trends, composition, [5 Hrs]
- Regional inequalities – measures to reduce regional inequalities, wage, employment, poverty, poverty line, extent, poverty alleviation programmes. [4 Hrs]

[TOTAL: 12 Hours]

MODULE II DEMOGRAPHIC PROFILE

- Trends in population growth – growth rate, density, age, sex, size, composition, and population policy – 2000 [5 Hrs.]
- Changes in occupational structure, unemployment – types, extent, measures to reduce unemployment [5 Hrs.]
- Rural, Urban migration – extent [2 Hrs.]

[TOTAL: 12 Hours]

MODULE III AGRICULTURE

- Trends in agricultural production, causes of low production. [2 Hrs.]
- Agricultural finance – co-operative credit, problems and prospects – NABARD [3 Hrs.]
- Agricultural marketing – defects, agricultural prices – procurement price, public distribution system [P.D.S.] [4 Hrs.]
- Irrigation – defects, modern irrigation systems – watershed development, dry land farming. [3 Hrs.]

[TOTAL: 12 Hours]

MODULE IV INDUSTRY

- Industrial policy resolution -1991 [3 Hrs.]
- Problems of public sector enterprises – disinvestment. [3 Hrs.]
- Engineering industry – information technology (I.T) industry [3 Hrs.]
- Small scale industries – problems, prospects and challenges. [3 Hrs.]

[TOTAL: 12 Hours]

MODULE V INFRASTRUCTURE (PHYSICAL AND SOCIAL)

- Sources of power in India – conventional [2 Hrs.]
- Non-conventional energy, energy crisis, power sector reforms [4 Hrs.]
- Universal promotion of primary education, role of government and N.G.O's [3 Hrs.]

- Health sector – immunization, maternal and child health strategies, prevention of communicable diseases [3 Hrs.]

[TOTAL: 12 Hours]

READING LIST

1. Alak G - *Indian Economy, Its nature and problems*
2. Rudder Dutt - *Indian Economy*
3. Dhingra I.C. - *The Indian Economy*
4. Misra SK and V.K. Puri - *Indian Economy Its Development Experience*
5. Uma Kapila - *An overview of Indian Economics - volume I - IV*
6. Govt. of Karnataka - *Economic Survey (Latest year)*
7. Govt. of Karnataka - *Karnataka at Glance*
8. O.D. Heggade - *Karnataka Economy, Kannada*
9. T. Nanje Gowda - *Karnataka Economy (IIA) Conference*

V- SEMESTER**DEVELOPMENT ECONOMICS- I : PAPER- 5.2 (A) ((PART-A)
(Optional paper)****COURSE OBJECTIVES :**

- ✓ To enable a student to learn the fundamental concepts of Development economics
- ✓ To enable a student to develop a logical and analytical view of issues in today's world
- ✓ To enable a student to relate learning to reality in case of development issues like poverty, technology, human resource development etc.

MODULE – I FUNDAMENTAL CONCEPTS

- Meaning of economic development – distinction between economic growth and economic development [2 Hrs.]
- Measurement of economic development – GNP, PCI, PQLI, HDI, human capabilities, sustainable development [3 Hrs.]
- Gender empowerment - index of development (GED) Factors determining economic development – economic and non-economic factors [3 Hrs.]
- Obstacles to development – vicious circles of poverty, market imperfections social faces. [4 Hrs.]

[TOTAL: 15 hours]

MODULE – II NATURAL RESOURCES AND DEVELOPMENT

- Role of natural resources and its use in economic development [3 Hrs.]
- Reasons for environmental degradation – air, water, and forests [2 Hrs.]
- Meaning of environmental economics ([1 Hr.]
- Market failures to control degradation, choice of instruments – govt. intervention that is polluter pay principle. Awareness and community participation [6 Hrs.]

[TOTAL: 12 hours]

MODULE – III HUMAN RESOURCE AND DEVELOPMENT

- Importance of HRD in economic development. [1 Hr.]
- Components of human capital formation. [2 Hrs.]
- Manpower planning – meaning, manpower shortages, manpower surpluses, strategy for manpower planning. [5 Hrs.]
- Entrepreneurship and development, types and role. [2 Hr.]

[TOTAL: 10 hours]

MODULE – IV CAPITAL RESOURCES AND DEVELOPMENT

- Importance of capital formation – causes for low capital formation [2 Hrs.]
- Sources of finance for economic development – domestic resources, savings, taxation, deficit financing, public borrowings [4 Hrs.]
- External sources – foreign capital – role of foreign capital – foreign aid – tied and untied aid. Private direct investment- constraints. [3 Hrs.]

[TOTAL: 9 hours]

MODULE – V TECHNOLOGY AND DEVELOPMENT

- Role of technology in economic development – channels of technology transfer – problems [2 Hrs.]
- Appropriate technology for developing countries [1 Hr.]
- Choice of techniques labour intensive technology, capital intensive technology [4 Hrs.]
- Capital output ratio (COR), Incremental capital output ratio (ICOR), determinants and importance, investment criteria in economic development. [4 Hrs.]
- Capital turnover, SMP, BOP criteria. [3 Hrs.]

[TOTAL: 14 hours]**READING LIST:**

- 1) Ray Debraj - *Development Economics*
- 2) Hent Diana - *Economic theories of Development – An analysis of competing paradigm*
- 3) Gerald M Meier - *Leading issues in Economic Development*
- 4) Meier and Baldwin - *Economic Development*
- 5) Higgins B - *Economic Development Past and Present*
- 6) Todaro - Micheal - *Economic Development*
- 7) Lekhi - *Development Economics*
- 8) M.L. Jhingan - *Economics of Development and planning*
- 9) Mishra and Puri - *Economics of Development and planning*
- 10) Das Debendra K - *Globalisation and Development – Experience and Challenges*. Deep and Deep Publication
- 11) Sen Gupta Ramprasad - *Ecology and Economics*, Oxford University Press
- 12) World Bank Reports - Various issues
- 13) Human Development - Various issues
- 14) Asian Development - Various issues

V- SEMESTER**ECONOMIC DOCTRINES – I : PAPER 5.2(B) (PART – A)
(Optional Paper)****COURSE OBJECTIVES:**

- To enable a student to understand the rich contributions of eminent thinkers to economic thought.
- To enable a student to understand the evolution of economic ideas over time.
- To enable a student to understand the importance of the economic ideas as developed by various thinkers.

MODULE - I PRE-CLASSICAL ECONOMIC IDEAS

- Significance of the study of economic doctrines [2 hrs.]
- Ancient economic thought – Hebrew, Greek and Roman [2 Hrs.]
- Mercantilism – Mercantilist ideas, representative mercantilist, decline of mercantilism. [4 Hrs.]
- Physiocracy – factors giving rise to Physiocracy – ideas – representative. Physiocrats, decline of Physiocracy. [4 Hrs.]

[TOTAL: 12 Hours]**MODULE - II CLASSICAL SCHOOL**

- Tenets of Classicism [2 Hrs.]
- Economic ideas of Adam Smith [2 Hrs.]
- Thomas Robert Malthus [2 Hrs.]
- David Ricardo [2 Hrs.]
- J.B. Say [2 Hrs.]
- J.S. Mill [2 Hrs.]

MODULE III SOCIALIST SCHOOL**[TOTAL: 12 Hours]**

- Pre-socialists – Sismondi [2 Hrs.]
- Robert Owen [2 Hrs.]
- Proudhon [2 Hrs.]
- Karl Marx – materialistic interpretation, dialectical materialism, class struggle, theory of surplus value, capitalist crisis, Marxism and Classicism, Marx and Gandhi [6 Hrs.]

MODULE IV MARGINAL SCHOOL**[TOTAL: 12 Hours]**

- Significance of the Marginal School [1 Hr.]
- Ideas of the Marginal school [1 Hr.]
- Contributions of Gossen [1 Hr.]
- Karl Menger [2 Hrs.]
- W.S. Jevons [2 Hrs.]
- Leon Walras [2 Hrs.]
- Austrian School [2 Hrs.]
- Bohm Bawerk [2 Hrs.]

MODULE V NEO-CLASSICAL SCHOOL**[TOTAL: 12 Hours]**

- Birth of the Neo-classical school [1 Hr.]
- Contributions of Alfred Marshall [3 Hrs.]
- Chamberlain [3 Hrs.]
- Mrs. Joan Robinson [3 Hrs.]
- J.B. Clark [2 Hrs.]

READING LIST:**[TOTAL: 12 Hours]**

1. Alexander Gray, *The Development of Economic Doctrines*
2. Arthur Mounce, *Early Economic Thought*
3. Eduard Whittaker, *Schools and Streams of Economic thought*
4. Ganguly, *Indian Economic Thought*
5. Guide and Rist, *A History of Economic Doctrines*
6. Hajela T.N., *History of Economic Thought*
7. Haney L.H., *History of Economic Thought*
8. Lekachaman R, *A History of Economic Ideas*
9. Mc Connel J.W., *Ideas of Great Economists*
10. Puttaswamaiah, *Nobel Economists*
11. Spiegel H.W., *The Development of Economic Thought*
12. William J Barber, *A History of Economic Thought*

V-SEMESTER**ENVIRONMENTAL ECONOMICS-I : PAPER – 5.2 (C) (PART-A)**
(Optional paper)**COURSE OBJECTIVES:**

- *To build a student's knowledge of the conceptual and theoretical foundation of environmental economics as a special branch of economics.*
- *To appraise a student with emerging environmental issues and policies at national and international levels.*

MODULE -I INTRODUCTION TO ENVIRONMENTAL ECONOMICS

- Environmental economics. need, nature and scope. Ecology and Resource economics. Nature and types of environmental goods [3 Hrs.]
- Individual preference regarding environmental protection – Social choice. [2 Hrs.]

- Cost benefit approach to environment. [3 Hrs.]
- Public goods and private goods, externality, Efficiency and markets – market failure, Pigovian fees, polluter pay principles, limits to growth theory. [4 Hrs.]

[TOTAL: 12 Hours]

MODULE - II INTRODUCTION TO DEVELOPMENT ECONOMICS

- Meaning, factors in development, measures, obstacles to development [3 Hrs.]
- Role of natural resources, population, capital, technology, entrepreneur and state in development. [5 Hrs.]
- Relationship between development and environment economics. [4 Hrs.]

[TOTAL: 12 Hours]

MODULE - III NATURAL RESOURCE ECONOMICS

- Basic concepts – current, potential and resource endowment, renewable, non-renewable. [3 Hrs.]
- Rate of Marketing and regeneration, Rate of extraction and environment cost, Rate of resource exploitation and technological progress. [4 Hrs.]
- Economics of exhaustible resources, resource scarcity, managing renewable resources, free access and problem of common property resources. [4 Hrs.]

[TOTAL: 12 Hours]

MODULE - IV NATURAL RESOURCE AND DEGRADATION

- Land use, degradation - soil erosion, unsustainable agriculture practices, chemical degradation, physical degradation, consequence, measures to check degradation. [4 Hrs.]
- Forest – as a resource, benefits, products, strain on forest resource and economic development. deforestation – extent, causes effects, measures for afforestation – community projects. [4 Hrs.]
- Bio-diversity – loss, extent, development of bio-diversity relationship. Measures preserving bio-diversity – National parks, Sanctuaries. [4 Hrs.]

[TOTAL: 12 Hours]

MODULE V NATURAL RESOURCE AND POLLUTION

- Water resource balance; source ground and surface, problem. Water pollution – sources, consequences; Development and Water resource management. [3 Hrs.]
- Energy – needs, source, environmental pollution, multi-purpose projects, energy crisis – policy, alternative sources of energy. [3 Hrs.]
- Wastes – problem of waste, nature as a source. Types – bio-degradation and non – bio degradable, poisonous, radio-active waste, Case of pesticides, Waste management. [3 Hrs.]
- Air pollution, Noise pollution extent causes, effects, remedies. [3 Hrs.]

[TOTAL: 12 Hours]

READING LIST:

1. Bhattacharya N, Rabindra (2001) *Environmental Economics - An Indian Perspective*. Oxford University Press, Delhi.
2. Sankar Ulaganathan (2001), *Environmental economics*, Oxford University Press, Delhi.
3. Sengupta, Ramprasad (2001), *Ecology and Economics - An approach to Sustainable Development*, Oxford University Press, Delhi.
4. Kolstad D Charles, (2000) *Environmental economics* Oxford University Press, Delhi.
5. *Our Common future* (1987) *World commission on Environment & Development*, Oxford University Press.
6. *Compendium of Environment Statistic* (1998), C.S.O., Govt of India.
7. Folmero J Gabel H L (2000) *Principles of Environmental and Resource Economics*, Edward Elgar Publications, London.
8. Hill (1995), *Understanding Environmental Pollution*, Cambridge University Press, London
9. Opschoor, (1999) *Environmental economics and Development*, Edward Elgan, London.
10. Pendlston, Graftar, *Dictionary of Environmental and Ecological Economics*

VI-SEMESTER
INDIAN ECONOMY- II : PAPER- 6.1 (PART-B)
(Compulsory paper)

COURSE OBJECTIVES :

- *To enable a student to have an overview of the working of the Indian economy.*
- *To enable a student to understand the changing trends in the Indian economy.*
- *To enable a student to understand the leading issues in India's economic development*

MODULE I FINANCIAL MARKETS

- Features of the Indian money market [1 Hr.]
- Unorganized sector. [1 Hr.]
- Critical review of the performance of nationalisation of commercial banks. [3 Hrs.]
- Monetary policy of the R.B.I. [2 Hrs.]
- Post – 1991 banking reforms. [3 Hrs.]
- I.D.B.I. (1) S.E.B.I [1 Hr.]

[TOTAL: 12 Hours]**MODULE - II FOREIGN TRADE**

- Changing structure of Indian exports and imports since independence. [2 Hrs.]
- Causes for disequilibrium in India's balance of payments. [2 Hrs.]
- Trade policy of the Govt. of India since 1991. [3 Hrs.]
- Impact of W.T.O. on India's foreign trade tariffs, subsidies and globalization. [5 Hrs.]

[TOTAL: 12 Hours]**MODULE - III GOVERNMENT FINANCE**

- Growth of public expenditure. [1 hr.]
- Source of revenue for the Union Budget – problems of India's tax system [2 Hrs.]
- Deficit financing – Trends and consequences [2 Hrs.]
- Federal Finance – divisions of resources, problems, review of the recommendations of the recent finance commission – Eleventh Finance Commission – Evaluation of India's fiscal policy. [1 Hr.]
- Parallel economy – causes, impact, remedies. [2 Hrs.]

[TOTAL: 12 Hours]**MODULE - IV KARNATAKA ECONOMY**

- Overview of Karnataka Economy – G.D.P., P.C.I. growth rate, H.D.I [1Hr.]
- Natural resources – land wise pattern, forest water, mineral resources [2Hrs]
- Population dynamics – growth, composition, density, problems [2 Hrs.]
- Agricultural development in Karnataka, trends in agricultural production. Problems of agriculture in Karnataka [2 Hrs.]

[TOTAL: 12 Hours]**MODULE IV KARNATAKA ECONOMY**

- Land holding, irrigation, finance and marketing. [3 Hrs.]
- Sericulture in Karnataka – growth, problems, projects. [2 Hrs.]

[TOTAL: 12 Hours]**MODULE V KARNATAKA ECONOMY**

- Recent industrial policy of the Govt. of Karnataka. [2 Hrs.]
- Small scale industry – growth and problems. [2 Hrs.]
- Information technology (I.T) Industry in Karnataka – role and growth. [1 Hr.]
- Energy sector – growth and problems. [2 Hrs.]
- Karnataka finances – sources and problems [2 Hrs.]
- Tenth five year plan. [1 Hr.]
- Regional imbalance in Karnataka – indicators – social and economic, causes and remedies. [2 hrs.]

[TOTAL: 12 Hours]**READING LIST**

- 1) Alak G - *Indian Economy, Its nature and problems*
- 2) Rudhra datt - *Indian Economy*

- 3) Dhingra I.C. - *The Indian Economy*
- 4) Misra SK and V.K. Puri - *Indian Economy Its Development Experience*
- 5) Uma Kapila - *An overview of Indian Economics - volume I - IV*
- 6) Govt. of Karnataka - *Economic Survey (Latest year)*
- 7) Govt. of Karnataka - *Karnataka at Glance*
- 8) O.D. Heggade - *Karnataka Economy, Kannada*
- 9) D. T. Nanje Gowda - *Karnataka Economy (IEA) Conference*

VI - SEMESTER

DEVELOPMENT ECONOMICS-II : PAPER 6.2 (A) (PART - B) (Optional paper)

COURSE OBJECTIVES :

- To enable a student to learn the fundamental concepts of Development economics.
- To enable a student to relate learning to reality in case of development issues like poverty, technology, and human resource development etc.
- To enable a student to develop a logical and analytical view of issues in today's world.

MODULE - I THEORIES AND STRATEGIES OF DEVELOPMENT

- Adam Smith [2 Hrs.]
 - Karl Marx [3 Hrs.]
 - Rostow [3 Hrs.]
 - Big push theory [2 Hrs.]
 - Critical minimum effort [2 Hrs.]
 - Strategies of development – balanced growth and unbalanced growth [4 Hrs.]
- [TOTAL: 16 Hours]**

MODULE - II STATE AND DEVELOPMENT

- Role of planning in economic development [1 Hr.]
 - Types of planning (at conceptual level), direction, inducement, physical, financial, regional, national, short-term, long-term, rolling, decentralized planning [5 Hrs.]
 - Macro economic policies for development – monetary and fiscal policies in economic development [4 Hrs.]
 - Regional imbalances – indicators, causes and remedies. [2 Hrs.]
- [TOTAL: 12 Hours]**

MODULE - III SECTORAL VIEW OF DEVELOPMENT

- Role of agriculture in economic development. [2 Hrs.]
 - Role of industry in economic development [2 Hrs.]
 - Role of service sector in economic development (an overview) [2 Hrs.]
 - Role of Infrastructure in economic development [2 Hrs.]
 - Transportation and communication sectoral planning [2 Hr.]
- [TOTAL: 10 Hours]**

MODULE - IV POVERTY AND INEQUALITY

- Poverty – absolute and relative poverty [2 Hrs.]
 - Measurement of poverty – Lorenz curve [3 Hrs.]
 - A. K. Sen's capability building thesis [1 Hr.]
 - Economic inequality between developed and developing countries [2 Hrs.]
 - Gender inequality – meaning [2 Hrs.]
- [TOTAL: 10 Hours]**

MODULE - V INTERNATIONAL ASPECT OF DEVELOPMENT

- Role of foreign trade in economic development [2 Hrs.]
 - Secular deterioration in terms of trade for developing nations [3 Hrs.]
 - Inward looking and outward looking strategy (domestic & foreign) Globalization – pros and cons for developing nations [3 Hrs.]
 - MNC's – role and spread [1Hr.]
 - World Bank and economic development [1 Hr.]
- [TOTAL: 11 Hours]**

READING LIST:

- 1) Ray Debraj - *Development Economics*
- 2) Hent Diana - *Economic theories of Development – An analysis of competing paradigm*
- 3) Gerald M Meier - *Leading issues in Economic Development*
- 4) Meier and Baldwin - *Economic Development*
- 5) Higgins B - *Economic Development Past and Present*
- 6) Todaro P Micheal - *Economic Development*
- 7) Lekhi - *Development Economics*
- 8) M.L. Jhingan - *Economics of Development and planning*
- 9) Mishra and Puri - *Economics of Development and planning*
- 10) Das Debendra K - *Globalisation and Development – Experience and Challenges*. Deep and Deep Publication
- 11) Sen Gupta Ramprasad - *Ecology and Economics*, Oxford University Press
- 12) World Bank Reports - Various issues
- 13) Human Development - Various issues
- 14) Asian Development - Various issues

VI- SEMESTER**ECONOMIC DOCTRINES-II : PAPER - 6.2 (B) (PART – B)
(Optional Paper)****COURSE OBJECTIVES:**

- To enable a student to understand the rich contributions of eminent thinkers to economic thought.
- To enable a student to understand the evolution of economic ideas over time.
- To enable a student to understand the importance of the economic ideas as developed by various thinkers.

MODULE – I KEYNESIAN SCHOOL

- Emergence of new economics [2 Hrs.]
- Keynes departure from classicism [3 Hrs.]
- Keynesian concept – consumption and investment function, effective demand [3 Hrs.]
- Post –Keynes – Schumpeter [2 Hrs.]
- Gunnar Myrdal [2 Hrs.]

[TOTAL: 12 Hours]**MODULE – II WELFARE SCHOOL**

- Pareto [1 Hr.]
- Hobson [1 Hr.]
- Pigou [2 Hrs.]
- J.R. Hicks [2 Hrs.]
- Kenneth K Arrow [2 Hrs.]
- Amartya Sen [2 Hrs.]

[TOTAL: 10 Hours]**MODULE – III GROWTH SCHOOL**

- Rosenstein-Rodan [2 Hrs.]
- Nurkse [2 Hrs.]
- Hirschman [2 Hrs.]
- Rostow [2 Hrs.]
- Leibenstein [2 Hrs.]

[TOTAL : 10 Hours]**MODULE – IV INDIAN ECONOMIC THOUGHT**

- Kautilya [1 Hr.]
- Dadabhai Naoroji [1 Hr.]
- R.C. Dutt [1 Hr.]
- Mahatma Gandhi [3 Hrs.]

- J.K. Mehta [2 Hrs.]
- C.N. Vakil [2 Hrs.]
- D.R. Gadgil [2 Hrs.]
- Nehru [2 Hrs.]
- P.R. Brahmananda [2 Hrs.]

[TOTAL : 16 Hours]

MODULE -V NOBEL ECONOMISTS

- Jan Tinbergen [2 Hrs.]
- Ragnar Frisch [2 Hrs.]
- Paul A. Samuelson [2 Hrs.]
- Milton Friedman [2 Hrs.]
- Simon Kuznets [2 Hrs.]
- W.W. Leontief [2 Hrs.]

[TOTAL: 12 Hours]

READING LIST:

1. Alexander Gray, *The Development of Economic Doctrines*
2. Arthur Mource, *Early Economic Thought*
3. Edmand Whittaker, *Schools and Streams of Economic thought*
4. Ganguly, *Indian Economic Thought*
5. Guidy and Rist, *A History of Economic Doctrines*
6. Hajela T.N., *History of Economic Thought*
7. Hancy I..H., *History of Economic Thought*
8. Lekachaman R, *A History of Economic Ideas*
9. Mc Connel J.W., *Ideas of Great Economists*
10. Puttaswamaiah, *Nobel Economists*
11. Spiegel H.W., *The Development of Economic Thought*
12. William J Barber, *A History of Economic Thought*

VI - SEMESTER**ENVIRONMENTAL ECONOMICS- II : PAPER – 6.2 (C) (PART-B)
(Optional Paper)****COURSE OBJECTIVES:**

- *To build a student's knowledge of the conceptual and theoretical foundation of environmental economics as a special branch of economics.*
- *To appraise a student with emerging environmental issues and policies at national and international levels.*

MODULE-I SUSTAINABLE DEVELOPMENT

- Concept, definition, approaches – Hardwick, London School, safe minimum approach, Daly's operational principles [3 Hrs]
- Indications, goal, requirements and obstacles to sustainable development [3 Hrs.]
- Sustainable Vs conventional development. Economics of re-cycling, sustainable agriculture [3 Hrs.]
- Policy approach to sustainable development: political economy of sustainable development. Techno-centric, Eco-centric solution to sustainable development [3 Hrs.]

[TOTAL: 12 HOURS]

MODULE-II POPULATION AND ENVIRONMENT

- Population growth of species, human population theory of demographic transition, growth, density, migration industrialization, pollution, waste. [5 Hrs.]
- Development of technology for population support, food security, ecology of the poor, affluent [5 Hrs.]
- Gender and environment [2 Hrs.]

[TOTAL: 12 HOURS]**MODULE – III ENVIRONMENTAL VALUATION AND POLICY INSTRUMENTS**

- Need for environmental valuation – Methods Direct – contingent valuation – Indirect – averting behaviour approach, weak complementary approach, and Hedonic approach. Applications of approaches and policy instruments. [4 Hrs.]
- Direct – pollution taxes, charges, and emission trading rights, deposit refund systems, performance bond, and strict liability for pollution. [3 Hrs.]
- Indirect – taxes on outputs of inputs of polluting activities, accelerated depreciation allowance, subsidies for adopting cleaner technologies, effluent treatment plants, eco-certification of products, environmental audit.
- Wide effects of environmental regulations [5 Hrs.]

[TOTAL: 12 HOURS]**MODULE – IV ENVIRONMENT ISSUES**

- International environmental issues – pollution issues – global warming, acid rain, ozone depletion, desertification – causes, effects [3 Hrs.]
- Ecological issues – tropical rain forests, endangered species. [2 Hrs.]
- International trade issues – domestic environment policy. [2 Hrs.]
- Cost of production, exportable. International co-operation. National issues – case studies, development and environmental issues
- Upper Krishna Project – Narmada River Valley Project – National Parks, Sanctuaries, Project Tiger, Tanneries, Quarries. [5 Hrs.]

[TOTAL: 12 HOURS]**MODULE – V ENVIRONMENTAL POLICY IN INDIA**

- Ministry of Environment and Forest, Govt. of India – Role, Environmental Legislation in India, Central Pollution Control Board [3 Hrs.]
- State Pollution Control Board – role, function, a brief review of Water Cess Act 1977, Forest Conservation Act, 1980, Wildlife Protection Act, 1972, National Policy for Conservation of Forest and Wildlife. Motor Vehicle Act, 1988. Water Prevention and Pollution Control Act 1974 as amended in 1988. Environment Protection Act, 1986. Hazardous Waste Management Rules, 1989, Bio Medical Waste Management Rules, 1989, Plastic Waste Rules 2001 (State) [5 Hrs.]
- Collective action, Role of NGO's, Environment education and awareness. [4 Hrs.]

[TOTAL: 12 HOURS]**READING LIST:**

1. Alexander Gray, *The Development of Economic Doctrines*
2. Arthur Mource, *Early Economic Thought*
3. Edmand Wittaker, *Schools and Streams of Economic thought*
4. Ganguly, *Indian Economic Thought*
5. Guidy and Rist, *A History of Economic Doctrines*
6. Hajela T.N., *History of Economic Thought*
7. Hancy L.H., *History of Economic Thought*
8. Lekachaman R, *A History of Economic Ideas*
9. Mc Connel J.W., *Ideas of Great Economists*
10. Puttaswamaiah, *Nobel Economists*
11. Spiegel H.W., *The Development of Economic Thought*
12. William J Barber, *A History of Economic Thought*

BANGALORE UNIVERSITY
DEPARTMENT OF COMMUNICATION

A MEETING OF THE BOS IN COMMUNICATION WAS CONVENED ON SATURDAY
13-12-2003 AT 11.30 AM IN THE CHAMBERS OF THE CHAIRMAN, DEPARTMENT OF
COMMUNICATION, BANGALORE UNIVERSITY, BANGALORE.

THE FOLLOWING MEMBERS WERE PRESENT:

1. **Dr. K. PUTTARAJU.....CHAIRMAN**
2. **Prof. N.S. ASHOK KUMAR..... MEMEBR**
3. **Dr. B.K. RAVIMEMEBR**
4. **Smt. M N VANIMEMEBR**

5. **Sri. MASILAMANI.....Absent**
6. **Dr. C PICHANDY-do-**
7. **Dr. USHARANI N.....-do-**

1. The Board unanimously ratified the resolution co-opting smt. M. N. Vani, Head of the Dept., Dept., of Journalism, NMKRV College for women, Bangalore as a special invitee and member of the BOS representing the undergraduate faculty.

2. The BOS unanimously resolved to approve the syllabi for B A Optional subject of Journalism under semester scheme prepared by the Chairman in consultation with the undergraduate and post graduate teachers through a series of consultation, discussion and workshops.

-sd-
CHAIRMAN

BANGALORE UNIVERSITY
SYLLABI FOR B.A. DEGREE (SEMESTER SCHEME)

OPTIONAL SUBJECT: JOURNALISM

PAPER: 1.1

TITLE OF THE PAPER: INTRODUCTION TO MASS COMMUNICATION

MAX MARKS 100 (Theory 90 + Internal Assessment 10) HOURS PER WEEK -5

UNIT I

Communication - Definition, Nature, Scope, Purpose, Process of Communication, Functions of Communication, Uses of Communication.

UNIT II

Kinds of Communication: Intra-personal, Interpersonal, Group, Mass Communication and other types.

UNIT III

Basic models of Communication - Linear, Non-linear models. Glossary of Journalism and Communication.

UNIT IV

Media for Mass Communication: Print media, Electronic media- Radio, Television, Oral, Traditional and Folk media.

BOOKS FOR REFERENCE:

- | | |
|-------------------|--------------------------------------|
| 1. DAVID BERLO | The Process of Communication. |
| 2. EMERY & OTHERS | Introduction to Mass Communication. |
| 3. WILBUR SCHRAM | Mass Communication |
| 4. KEVAL J KUMAR | Mass Communication in India. |
| 5. RIVERS W L | Mass Media. |
| 6. FEDLER F | Introduction to Mass Media. |
| 7. BITNER J | Mass Communication- An introduction. |
| 8. SUBIR GHOSH | Communication in India. |

II SEMESTER

PAPER 2.2

TITLE OF THE PAPER: FUNDAMENTALS OF JOURNALISM

MAX MARKS 100 (Theory 90 + Internal Assessment 10) HOURS PER WEEK -5

UNIT I

Definition of Journalism: Nature, Scope, Functions. Role of Press in Democracy, Principles of Journalism.

UNIT II

Kinds of Journalism- Newspapers, Periodicals and Specialized Magazines. New Journalism, Development Journalism, Community Journalism.

UNIT III

Press in India: A brief review of the evolution of Indian Press- with special reference to J.A.Hickey, Raja Ram Mohan Roy, James Silk, Buckingham, M.K.Gandhi, S.Sadanand, and B.G.Horniman.

UNIT IV

Kannada Journalism: Origin, growth and development of Journalism in Karnataka. Major Newspapers of Karnataka. Recent Trends.

UNIT V

Review of Newspaper and Periodical Contents. Photo-Journalism. Uses of Cartoons, Comic strips. News Agencies. Professional Press Organizations.

BOOKS FOR REFERENCE:

- | | |
|-----------------------|---|
| 1. RIVERS W.L | Mass Media. |
| 2. FRASER BOND | Introduction to Journalism. |
| 3. MEHTA. D.S | Mass Communication and Journalism in India. |
| 4. NADIG KRSHNAMURTHY | Indian Journalism. |
| 5. PARTHA SARATHY R | Journalism in India. |
| 6. CHALPATHY RAU M | The Press. |
| 7. AHUJA B.N | The Theory and Practice of Journalism. |
| 8. GUNDAPPA D V | Vritta Patrikegalu. |

SEMESTER-III

PAPER-3.3

TITLE OF THE PAPER: MEDIA LAWS AND INDIAN CONSTITUTION.

MAX MARKS 100 (Theory 90+ Internal Assessment 10) HOURS PER WEEK -5

UNIT I

Concept of Freedom of Press. Press as a Fourth Estate. Press during Emergency. Public and Private media. Comparative freedom for media in- USA, India and Non aligned countries.

UNIT II

Indian Constitution: Preamble, Salient features, Fundamental Rights and Duties. Directive Principles of State Policy. Freedom of Speech and Expression: Article 19(1) (a) and Article 19(2).

UNIT III

Media Laws: Defamation-Slander, Libel, Sedition, Obscenity, Censorship and Contempt of Court.

UNIT IV

Media Acts: Official Secrets Act, Working Journalists Act of 1955, Parliamentary Proceedings and Privileges, The Press and Registration of Books.

UNIT V

Press Council of India, Press Commissions of India.

BOOKS FOR REFERENCES:

1.DURGADAS BASU

2.RAYUDU C S

3.UMRIGAR D M

4.PII

5.DURGADAS BASU

6.SOMESWARA RAO B

7.RADHAKSRISHNAMURTHY B

8.REPORTS

Laws of the Press in India

Communication Laws.

Journalist and the Law.

The Law and the Press.

Indian Constitution.

Journalism: Ethics, Codes and The law.

Indian Press Laws.

1) First Press Commission Report.

2) Second Press Commission Report.

3) Press Council Act

SEMESTER IV

PAPER 4.4

TITLE OF THE PAPER: BASIC AUDIO-VISUAL MEDIA.

MAX MARKS 100 (Theory 90+Internal Assessment 10) HOURS PER WEEK -5

UNIT I

Brief history of Radio, Evolution of Radio in India. Contemporary Radio-AM, FM, Community Radio, Educational Radio, Radio Rural Forum. Commercial Radio Broadcasting in India.

UNIT II

Impact of Radio on Society: Developed countries and Developing countries. Types of programs on Radio- Yuva vani, News, Farmers, Women, Labour, Special Audience. Principles of Writing for Radio.

UNIT III

A brief history of Television. Development of Television in India. Advent of Private Channels, Cable and Satellite TV, Television as an Educational medium.

UNIT IV

Types of Television Programmes. Basic Production Techniques. Writing for Television. Recent Trends in Indian Broadcasting Journalism.

UNIT V

A brief history of Indian Cinema. New trends in Indian cinema. Status of Kannada Cinema. Censorship in India.

BOOKS FOR REFERENCE:

- | | |
|--------------------------|---|
| 1. MEHRA MASANI | Broadcasting and the People. |
| 2. SRIVASTAVA K M | Radio and TV Journalism. |
| 3. BLISS AND PATTERSON | Writing News for Broadcasts. |
| 4. KAUSHIK S | Introduction to TV Journalism. |
| 5. GERALD MILLER SON | Techniques of Television Production. |
| 6. MULLICK K R | Tangled Tapes. |
| 7. BARNOU & KRISHNASWAMY | Indian Film |
| 8. GARGA B D | So many Cinemas: The Motion Picture in India. |

SEMESTER V

PAPER-5.5

TITLE OF THE PAPER: REPORTING METHODS

MAX MARKS 100 (Theory 90+ Internal Assessment 10) HOURS PER WEEK -4

UNIT I

News: Definitions, News Values, Structure. Methods of writing a news story. Leads: types of leads. Sources of News. Principles of news writing. Traits of a Reporter.

UNIT II

Interview-Techniques, Types. Methods of writing Interview Stories.

UNIT III

Features: Definition, Kinds of features, Writing different kinds of features. News writing skills for covering – Conference, Seminar, Press Conference, Press releases. Advance stories and Complex stories.

UNIT IV

Reporting: Speech, Crime, Sports, Courts, Society, Accidents, Science, Agriculture, Fashion and Development.

BOOKS FOR REFERENCE:

- | | |
|---------------------|-----------------------------|
| 1. KAMATH M V | Hand Book of Journalism. |
| 2. SRIVASTAVA K M | News writing and Reporting. |
| 3. Mc DOUGAL C D | Interpretative Reporting. |
| 4. SHEEHAN P V | Reportorial writing. |
| 5. SHERWOOD H C | Journalistic writing. |
| 6. KAMATH M V | Professional Journalism. |
| 7. CARL WARREN | Modern news reporting. |
| 8. RAMACHANDRA IYER | Quest for news. |

SEMESTER V

PAPER-5.6

TITLE OF THE PAPER: EDITING TECHNIQUES

MAX MARKS 100 (Theory 90+ Internal Assessment 10) HOURS PER WEEK -4

UNIT I

Newspaper Organization- Operations. Functions and Duties of the Editorial Departments.

UNIT II

Need and Purpose of Editing. Principles of Editing: Print and Electronic media.

UNIT III

Duties and Responsibilities of Editor. News Editor. Chief Sub Editor. Sub Editor.
Headlines: Kinds of Headlines, Functions of Headlines, Headline writing and Unit Count.

UNIT IV

Introduction to Typography. Graphic Arts- Importance and Methods.

BOOKS FOR REFERENCE:

- | | |
|------------------------|------------------------------------|
| 1. BRUCE WESTLEY | News Editing |
| 2. BASKETT & SCISSORS | The Art of Editing. |
| 3. HAROLD EVANS | Newspaper Design. |
| 4. WOLSELEY & CAMPBELL | Newsmen At Work. |
| 5. GEORGE T J S | Editing-A Handbook for Journalism. |
| 6. HUNT A | Newspaper Design. |
| 7. SPENCER L M | Editorial Writing. |
| 8. McGRIFFERT R C | The Art of Editing News. |

SEMESTER VI

PAPER-6.7

TITLE OF THE PAPER: MEDIA MANAGEMENT

MAX MARKS 100 (Theory 90+ Internal Assessment 10) HOURS PER WEEK -4

UNIT I

Starting of a Newspaper: Newspaper Organization and Management. Principles of Newspaper Business, Divisions, Operations. Types of Newspaper Organizations in India.

UNIT II

Newspaper Ownership: Types of Newspaper ownership in India. Circulation and Promotion. Public Relations for Newspaper Organization.

UNIT III

Problems and Prospects of Newspaper Industry in India, Small newspaper and their problems. News Agencies. Global competition on Indian Media. Status of Radio and Television in India.

UNIT IV

Principles of Television and Radio Management in India. Recent Trends in Broadcasting Management.

BOOKS FOR REFERENCE:

1. MEHRA Newspaper Management.
2. RUCKER & WILLIAMS Newspaper Organization and Management.
3. SINDHWANI Newspaper Economics and Management.
4. HERBERT WILLIAMS Newspaper Organization and Management
5. RAYUDU C S Media and Communication Management.
6. MOCVATT & PRINGLE Electronic media Management
7. BHATTACHARJEA A Indian Press- Profession to Industry.
8. BARNHART T F Weekly Newspaper Management.

SEMESTER VI

PAPER-6.8

TITLE OF THE PAPER: INTRODUCTION TO ADVERTISING AND PUBLIC RELATIONS.

MAX MARRKS 100 (Theory 90+ Internal Assessment 10) HOURS PER WEEK -4

UNIT I

Advertising- Meaning, Nature, Scope. Types of Advertisements. Role of Advertising in Society. Advertisements and Ethics.

UNIT II

Advertising Agencies. Functions of Advertising Agencies. Copy writing, Slogan writing, Visualisation.

UNIT III

Nature and Scope of Public Relations. Qualifications and responsibilities of a Public Relations Officer. Difference between Publicity, Public Opinion, Propaganda and Public Relations.

UNIT IV

House Journals, Corporate Communication. Professional Organizations in Public Relations.

BOOKS FOR REFERENCE:

- | | |
|-----------------------|---------------------------------------|
| 1. KEVAL J KUMAR | Advertising in India. |
| 2. SANDAGE AND OTHERS | Advertising –Theory and Practice. |
| 3. SETHIA & CHUNAWALA | Advertising- Principles and Practice. |
| 4. OTTO KLEPPNER | Advertising Procedure. |
| 5. CUTLIP & CENTER | Effective Public Relations. |
| 6. RAVINDRAN | Handbook of Public Relations. |
| 7. AHUJA & CHANDRA | Public Relations. |
| 8. SAM BLACK | Practical Public Relations. |



BANGALORE UNIVERSITY

Jnana Bharathi Campus, Bangalore – 560 056

FACULTY OF ARTS

**DEPARTMENT OF POLITICAL SCIENCE
SYLLABUS for**

BA SEMESTER SCHEME

For the Academic Year 2011-12



Dr. P.S.JAYARAMU
Professor & Chairperson

JNANA BHARATHI
BANGALORE - 56.

29th July 2010

**Proceedings of the Meeting of the Board of Studies in
Political Science (UG), 2010**

The meeting of the Board of Studies in Political Science (UG) was convened on 29th July 2010 at 11.00 A.M in the Conference Room of the Department of Political Science, Bangalore University, Jnana Bharathi, Bangalore. The following decisions/resolutions were taken/passed at the meeting:

1. Approved the Panel of Examiners for the B.A (Political Science), Semester and Annual Scheme examinations for the year 2010-11 and the Indian constitution Compulsory paper for the 2010-2011 examinations.
2. Recommended names for the chairman and members of the Board of Examiners for the above mentioned examinations.
3. The members approved the revised syllabus for being introduced from the academic year 2011-12 and resolved to request the University authorities to do the needful.
4. The Board unanimously resolved that the Compulsory paper on Indian Constitution should also be brought under Central Valuation from the academic year 2010-11. The Compulsory paper on Indian Constitution should be valued by teachers of Political Science only.
5. The Board also resolved that the work load for teaching of each paper should be 5 hours per week for all the semesters.

The following Members were present at the Meeting:

Name

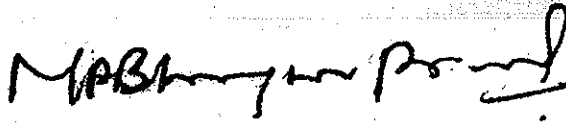
Signature

Chairman:

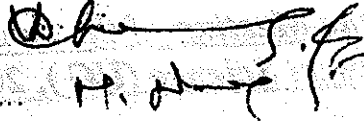
01. Dr.P.S.Jayaramu

Members:

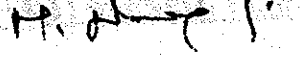
02. Dr. Bhuvaneshwara Prasad



03. Prof. Dhanamma.V



04. Sri.M. Narayanaswamy



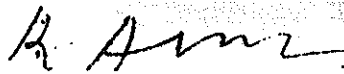
05. B.K.Dattatri



06. Prof. Sri.Ashwath G.R



07. Sri.Ashwath Reddy R

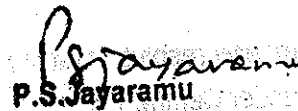


MEMBERS ABSENT :

08. Prof.Madanagiriappa

09. Prof.Neri Cornelio

10. Sri.Suresha



P.S. Jayaramu

INTRODUCTION TO THE B.A. POLITICAL SCIENCE COURSE

The B.A. Political Science Course offered by Bangalore University is spread over Six semesters. The objective of the course is to provide a firm grounding in the subject, develop 'analytical skills' and to provide a 'realistic' perspective to the local, national and international issues that figure in the syllabus.

The syllabus has been completely updated in keeping with the changing times and circumstances, as well as the larger societal needs. The course content includes papers in core areas of Political Science like Concepts of Political Science, Political Theories, Modern Governments, Political Thought – Western and Eastern, Public Administration, International Relations, International Institutions & Foreign Policies & Indian Constitution- Institutional Structure. The revised & updated bibliography paper wise has also been provided.

The goals and objectives of the B.A. Political Science Course are as follows:

- To impart quality education to those seeking admission to the B.A. Political Science Course.
- To equip the students to prepare themselves for careers in teaching and research, the Union and State civil services, and the non-governmental sector.
- To increase awareness among students on local, national and international issues, and strengthen their analytical skills and capabilities; and
- To train students to be good citizens.

SEMESTER SCHEME SYLLABUS
(To be effective from the Academic Year 2011-2012)

B.A. I SEMESTER

Sl No	Paper No	Title of Paper	Page No.
1	PAPER -1	CONCEPTS OF POLITICAL SCIENCE-----	1

B.A. II SEMESTER

2	PAPER-2	POLITICAL THEORIES-----	2
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B.A. III SEMESTER

3	PAPER-3	MODERN GOVERNMENTS (With reference to the Constitutions of UK, USA and Switzerland) -----	3
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B.A IV SEMESTER

4	PAPER 4	POLITICAL THOUGHT - WESTERN AND EASTERN	4
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B.A. V SEMESTER

5	PAPER 5.1	PUBLIC ADMINISTRATION -----	5
6	PAPER 5.2	INTERNATIONAL RELATIONS -----	6
7	OPTIONAL 5.1	INTERNATIONAL RELATIONS -----	7
8	OPTIONAL 5.2	INTERNATIONAL INSTITUTIONS & FOREIGN POLICIES -----	8

B.A.VI SEMESTER

9	PAPER 6.1	INDIAN CONSTITUTION- INSTITUTIONAL STRUCTURE	9
10	PAPER 6.2	INDIAN CONSTITUTION - PROCESSES AND ISSUES----	10

QUESTION PAPER PATTERN

[B.A. (Political Science) 'Semester Scheme' Syllabus]

Total Marks: 90

Time: 3 hours

NOTE : Read Instructions carefully. All Parts - A, B and C - are compulsory except for their internal options.

PART A

Instructions : Answer any three from the following in 60 words each.
All questions carry equal marks 5 x 3 = 15 marks

- 1)
- 2)
- 3)
- 4)
- 5)

PART B

Instructions : Answer any three questions from the following in 200 words each.
All questions carry equal marks 10 x 3 = 30 marks

- 1)
- 2)
- 3)
- 4)
- 5)

PART C

Instructions : Answer any three questions from the following in 500 words each.
All questions carry equal marks 15 x 3 = 45 marks

- 1)
- 2)
- 3)
- 4)
- 5)

SYLLABUS FOR SEMESTER SCHEME-B.A.POLITICAL SCIENCE

I SEMESTER

PAPER-1: CONCEPTS OF POLITICAL SCIENCE

- 1. Political Science :** Meaning, Nature, Scope & Importance. Approaches to Political Science-Historical, Normative, Behaviouralism and Post-Behaviouralism
- 2. State :** Elements of State, Theories of State, Historical, Divine, Social Contract Theory, State in the age of Globalisation, State and Civil Society
- 3. Sovereignty :** Meaning Characteristics and Kinds; Theories of Sovereignty, Contemporary Challenges to State Sovereignty
- 4. Law and Justice :** Law- Meaning, Schools of Law-Historical, Philosophical, Comparative, Social and Marxian, Law & Governance, Liberty & Equality- Meaning & Kinds. Justice- Definitions- Social, Economic, Political and Legal, Rawl's Concept of Justice
- 5. Rights and Duties :** Meaning & Kinds- Civil, Political, Social, Economic & Cultural, Human Rights with special References to Rights of Children, Women, Minorities and Disadvantaged Sections, Duties towards the State

Books for Reference

Author	Title
1. A.C.Kapur	-Principles of Political Science-S.Chand & Co-1998 (Revised)
2. J.C.Johari	- Principles of Modern Political Science-Sterling-2007
3. Appadorai	- The substance of Politics OUP-1998(Reprint)
4. N.W.Agarwal	- Principles of Political Science-R.Chand & Co-2006.
5. Sahadipali	- Civil Society and Modern Politics-Global Vision-2004
6. Harold Laski	- Grammer of Politics-Surjeet-2005
7. B.K.Gokale	- Political Science-Theory & Government Machinery HPH-2008
8. Heywood	- Key Concepts of Politics-Ane-2009
9. John Rawls	- Concepts of Justice-Rawat Pub-1999
10. R.R.Sarana	- Behaviouralism and Political Theory-Rawat Pub-2001
11. A.AS.Joseph	- Capitalism, Socialism and Democracy-S.Chand & Co-1988
12. D.Deol	- Liberalism and Marxism-Sterling-1988
13. Krishna Iyer	- Human Rights and Wrongs
14. O'Byrne	- Human Rights- An Indtroduction-Pearson-2010
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಮೂಲಭೂತ ಪರಿಕಲ್ಪನೆಗಳು - ಕಲಾಪ್ರಕಾಶನ 2004
16. ಹಾಲಜ್ಜೆ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2005
17. ಮಾಲ ಮದ್ದಣ್ಣ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಕಲಾ ಪ್ರಕಾಶನ - 2004
18. ರಾಮಕೃಷ್ಣ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಲಲಿತ ಪ್ರಕಾಶನ - 2005
19. ಲೋಹಿತಾಶ್ವ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಪರಿಕಲ್ಪನೆಗಳು - ವಿದ್ಯಾನಿಧಿ - 2010
20. ಹಾಲಜ್ಜೆ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ವಿದ್ಯಾನಿಧಿ - 2008
21. ಕಬ್ಬೂರಿ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಮೂಲ ಪರಿಕಲ್ಪನೆಗಳು - ವೀಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ - 2004

II SEMESTER

PAPER-2: POLITICAL THEORIES

1. **Political Theory** : Meaning, Importance, Contemporary Trends: Liberalism: Classical, Modern and Neo-Liberalism
2. **Democracy** : Meaning and Kinds, Theories of Democracy-Classical, Pluralist, Marxist, Elitist, Challenges to Democracy
3. **Imperialism and Post Imperialism** : Meaning and Types, Neo-Colonialism and its Feature, Dependency Theory, Modernism and Post Modernism
4. **Socialism** : Meaning and Kinds of Socialism-Utopian Socialism, Democratic Socialism, Scientific Socialism, Market Socialism, Challenges to Socialism, Debate over end of Ideology
5. **Gandhism** : Principles, Means and Ends, Truth and Non-Violence, Satyagraha, Sarvodaya, Relevance of Gandhism in Modern Times

Books for Reference

Author	Title
1. Andrew Hacker	- Political Theory: Philosophy, Ideology Science- Surjeet-2006.
2. G.P.Gauba	- Introduction to Political Theory- Macmilan-2006.
3. Heywood	- Political Ideologies-Palgrave-2003
4. Asirvatham	- Modern Political Theory- S.Chand & Co (1968) 2001 (Revised)
5. S.P.Varma	- Modern Political Theory- Vikas-1990 (Revised)
6. Earnest Barker	- Principles of Social and Political Theory-OUP-1987.
7. Manoj Sharma	- Political Theory and Thought- Anmol Publication-2004
8. G.H.Subine	- A History of Political Theory-OIBH-1998
9. Choudhury	- Political Theory-Traditional & Modern Justice-National-1999
10. Bikhu Parekh	- Gandhism. OUP 2004
11. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು- ಕಲಾ ಪ್ರಕಾಶನ - 2004
12. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಗಾಂಧೀ ವಿಚಾರಧಾರೆ - ಶಬರಿಮಲೆಯನ್ - 2005
13. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2004
14. ಡಾ.ದೇವೇಗೌಡ	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2004

III SEMESTER

PAPER 3 : MODERN GOVERNMENTS

(With reference to the Constitutions of UK, USA and Switzerland)

Salient Features

1. **Legislatures** : Composition, Powers and Functions, Law Making Process, Challenges to Legislatures in recent times
2. **Executive** : Types, Powers and Functions, Debate over the rising powers and role of the Executive
3. **Judicial System** : Composition, Powers and Jurisdiction, Supreme Court and Judicial Review
4. **Political Parties and Pressure Groups** : Nature & Functions
5. **Public Opinion** : Importance & Agencies of Public Opinion

Books for Reference

Author	Title
1. Bhattacharya	- Modern Political Constitutions- Vijaya-2003
2. K.K.Ghai	- Select Political System-Kalyani-2008
3. K.K.Ghai	- Major Governments- Kalyani-2008
4. A.C.Kapur	- Select Constitutions- S.Chand & Co-2006
5. J.C.Johari	- Major Modern Political Systems- Vishal-1987 (Revised)
6. S.Guptha	- Simple Study of World Constitutions- Ajantha-1997
7. B.C.Rai	- World constitutions- Prakasana Kendra -1998
8. S.R.Maheswari	- Comparative Government and Politics-Laxminarayana Agarwal 2004
9. U.R.Ghai	- Political Systems of Switzerland- New Academic Pub-2003
10. Harihara Das	- Select Modern Governments- Anmol Pub-2000
11. Caramani Danic	- Comparative Politics- OUP-2008
12. V.K.Khanna	- Comparative Study of Government and Politics-R.Chand & Co-2007
13. Palekar	- Comparative Politics & Government-PHI-2010
14. R.N.Sharma	- Great Political Thinkers of the World
15. Suresh C Pant	- History of Western Political Thought: From Plato to Present Day Prakashan Kendra- 2009
16. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಧುನಿಕ ಸರ್ಕಾರಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 1999
17. ಡಾ.ಐ.ಡಿ.ದೇವೇಗೌಡ	- ಅಧುನಿಕ ಸರ್ಕಾರಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್
18. ಕೆ.ಜಿ.ಸುರೇಶ್	- ಅಧುನಿಕ ಸರ್ಕಾರಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್
19. ಹೆಚ್.ಐ.ರಾಮಕೃಷ್ಣ	- ಅಧುನಿಕ ಸರ್ಕಾರಗಳು - ಲಲಿತ ಬುಕ್ ಹೌಸ್
20. ಲೋಕತಾಸ್ತ	- ಅಧುನಿಕ ಸರ್ಕಾರಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ
21. ಮೂಲ: ಕೆ.ಸಿ.ವೀಯರ್ ಅನುವಾದ: ಮಹೇಶ್ವರಪ್ಪ	- ಅಧುನಿಕ ಸಂವಿಧಾನಗಳು - ಮೈಸೂರು ವಿವಿ - 1994

IV SEMESTER

PAPER 4 : POLITICAL THOUGHT – WESTERN AND EASTERN

1. **Ancient Greek Political Thought** : Ideas of Socrates, Plato-Ideal State, Justice, Education, Communism and Philosopher King. Aristotle- Concepts of State, Classification of Constitutions, Slavery and Revolution
2. **Medieval Political Thought** : Church & State in Medieval Europe. St.Augustine and Thomas Aquinas
3. **Modern Political Thought** : Political Ideas of Machiavelli and J.S.Mill
4. **Political Ideas** of Karl Marx and Harold J.Laski
5. **Eastern Political Thought** : Political Ideas of Manu, Kautilya and Shanti Parva of Mahabharatha

Books for Reference

Author	Title
1. Ghosh Birendranath Pub	- Glimpses of Political Thought- Western & Indian, Mahila Mangal Kolkata-2004
2. D.R.Bandari	- Studies in Plato and Aristotle- S.Chand & Co-1990
3. Venkat Rao	- History of European Political Philosophy-S.Chand & Co.
4. Venkat Rao	- Ancient Political Thought- S.Chand & Co-1990.
5. M.G.Gupta	- History of Political Thought-Chaithanya Pub-2000 (Reprint)
6. R.P.Sharma	- Western Political Thought- Sterling-1998
7. Wayper C L	- Political Thought- B.I.Publication-1988
8. V.P.Varma Agarwal	- Ancient, Medieval, Indian Political Thought- Lakshminarayana 1982
9. V.P.Varma	- Modern Indian Political Thought- Lakshminarayana Agarwal-1982.
10. Mukerjee	- History of Political Thought- Plato-Prentice hall-1999
11. Appadorai	- Political Thought in India- Khanna-2002.
12. Manoj Sharma	- Political Thought- Anmol-2004
13 Pergara	- Chanakya Neeti Darpana- Surjeet Publications-2009
14. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಪ್ರಾಚೀನ ಭಾರತದ ರಾಜಕೀಯ ತತ್ವಿಕರು - ಶರಬರಿಮಲೆಯನ್ - 2008
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಆಧುನಿಕ ರಾಜಕೀಯ ಚಿಂತಕರು - ಶರಬರಿಮಲೆಯನ್ - 2009
16. ಮಾಲ ಮುದ್ದಣ್ಣ	- ರಾಜನೀತಿಜ್ಞರು - ಕಲಾ ಪ್ರಕಾಶನ - 2005
17. ವಿ.ಜಿ.ಸಾಲಮಠ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ ವೈಭಾರಿಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
18. ಎಚ್.ಸಿ.ಲೋಹಿತಾಶ್ವ	- ರಾಜಕೀಯ ಚಿಂತಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
19. ನವಲಗುಂದ	- ಪಾಶ್ಚಿಮಾತ್ಯ ಮತ್ತು ಭಾರತೀಯ ರಾಜನೀತಿ ವಿವೇಚಕರು - ವಿದ್ಯಾನಿಧಿ - 2007
20. ಕಲ್ಮಠ ಮತ್ತು ಶೀಲವಂತರ	- ಭಾರತೀಯ ರಾಜನೀತಿ ವಿವೇಚಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
21. ಟಿ.ಡಿ.ದೇವೇಗೌಡ	- ಪಾಶ್ಚಿಮಾತ್ಯ ರಾಜಕೀಯ ಚಿಂತನೆ - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2007
22. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಪಾಶ್ಚಿಮಾತ್ಯ ರಾಜಕೀಯ ಚಿಂತಕರು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2008

V SEMESTER

PAPER 5.1: PUBLIC ADMINISTRATION

1. **Public Administration** : Meaning, Scope, Importance of Public Administration, Private and Public Administration: Differences, Organisation: Theories and Principles, Line, Staff and Auxillary Agencies, Departments
2. **Dynamics of Management** : Meaning and Functions of Management; Chief Executive – Powers and Functions. Leadership- Qualities, Communication, Planning and Public Relations
3. **Personnel Administration** : Meaning and Importance, Recruitment, Training, Promotion, Morale, Discipline, Retirement
4. **Financial Administration** : Budget – Nature and Principles, Budgetary Process- Preparation, Enactment and Execution, Reforms in Financial Administration, Performance Budget, Zero Based Budget
5. **Trends in Public Administration** : Comparative Administration, Development Administration, Good Governance, E-Governance, Public Private Partnership

Books for Reference

Author	Title
1. Chakravarthy	- Reinventing Public Administration- Orient Longman-2007
2. C.P.Bhambri	- Public Administration-JPN-2002
3. L.D.White	- Public Administration- Surjeet Publications-2007
4. B.L.Fadia	- Administrative Theory- Sahitya Bhavan-2007
5. S.L.Goel	- Public Personnel Administration-Theory & Practice, Deep & Deep-2006
6. M.Bhattacharya	- New Horizons of Public Administration- Jawahar Pub-2006
7. S.R.Maheshwari	- Administrative Theory- Macmilan-2003.
8. Ramesh K. Arora	- Public Administration- Aalekh – 2004
9. K.K.Ghai	- Public Administration- Kalyani- 2008
10. S.C.Goel	- Advanced Public Administration- Deep & Deep – 2008
11. M.P.Sharma	- Public Administration- Theory and Practice- Kittab Mahal – 2009
12. Henry Nicolas	- Public Administration and Public Affairs- PHI – 2009
13. Rumki Basu	- Public Administration- Sterling Pub- 2008
14. Avasthe&Maheshwari	- Public Administration – Lakshminarayana Agarwal.
15. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತದ ಮೂಲ ತತ್ವಗಳು - ಶಬರಿಮಲೆಯನ್ - 2006
16. ಎಚ್.ಉ.ರಾಮಕೃಷ್ಣ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಲಲಿತ ಪ್ರಕಾಶನ - 2002
17. ಮಾಲ ಮಧುಣ್ಣ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಪದ್ಮ ಪ್ರಕಾಶನ - 2002
18. ಎಚ್.ಕೃಷ್ಣರಾವ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಮೈಸೂರು ವಿವಿ - 1962
19. ನವಲಗುಂದ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2007
20. ಶೀಲವಂತರ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2007
21. ಕೆ.ಜಿ.ಸುರೇಶ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
22. ದಿನೇಶ್	- ಅಭಿವೃದ್ಧಿ ಆಡಳಿತ - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
23. ಕಬ್ಬೂರಿ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವೀಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ - 2006

V SEMESTER

PAPER 5.2: INTERNATIONAL RELATIONS.

1. **International Relations** : Nature and Importance, Idealist and Realist approaches, Systems and Decision making Theories
2. **National Power and Foreign Policy** : Elements of National Power, Evaluation of National Power, Formulation and Implementation of Foreign Policy, Role of Diplomacy and Economic Instruments
3. **War and Terrorism** : Meaning, Causes and Types of war, Methods of Prevention of war, Terrorism and Methods of combating Terrorism.
4. **International Law** : Nature, Sources and Sanctions, Universal Declaration of Human Rights, Role of Non-Governmental Organisations in the promotion of Human Rights
5. **International Organisations** : League of Nations, Evaluation, United Nations- Working and Challenges

Books for Reference

Author	Title
1. Melkote Rama S & A.Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K.Ghai	- International Relations- Kalyani Pub - 2005
3. John Bayli's	- Globalisation of the world Politics- OUP-2008
4. V.K.Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century- Pearson-2010
6. Mahendra Gaur	- United Nations for a Better world - Alfa - 2006
7. Peu Ghosh	- International relations - PHI- 2009
8. Morgenthau Hans J	- Politics among Nations: The Struggle for Power & Peace-Kalyani Pub- 1985
9. Goldstein	- International Relations - Pearson - 2006(Reprint)
10. Malhotra V.K	- International Relations - Anmol Pub - 2006(Reprint)
11. Mahendra Kumar	- Theoretical Aspects of International Relations -Shivalal Agarwal & Co- Agra -1995(Reprint)
12. V.P.Dutt	- India's Foreign Policy Since Indipendance - NBT - 1987
13. Quincy Wright	- The Study of International Relations - Appleton Century Crafts New York-1955
14. ಡಾ.ಪಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣ ಪ್ರಕಾಶನ - 2008
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಠಿಯನ್ - 2006
16. ಲೋಹಿತಾಶ್ವ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ-2010
17. ಆರ್.ವಿ.ಹೊರಡಿ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ -2010
18. ಕೆ.ಜೆ.ಸುರೇಶ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2007
19. ಹೆಚ್.ಟಿ.ರಾಮಕೃಷ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಸ್ಥೆಗಳು - ಲಲಿತ ಪ್ರಕಾಶನ - 2006
20. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
21. ಹಾಲಪ್ಪ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 200

V SEMESTER

OPTIONAL 5.1: INTERNATIONAL RELATIONS

1. **International Relations** : Nature and Importance, Role of State and Non-State Actors, Idealist and Realist Approaches, Systems and Decision making Theories
2. **National Power and Foreign Policy** : Elements of National Power, National Security, Nature, Objectives and Formulation of Foreign Policy
3. **Instruments of Foreign Policy** : Diplomacy, Nature, Types and Functions, Alliances during Cold War and Post Cold war Period, Economic Instruments of Foreign Policy
4. **War and Terrorism** : Meaning, Causes, Types and Methods of Prevention of War, Terrorism; Combating Terrorism
5. **Approaches to International Peace** : Balance of Power, Collective Security, Pacific Settlement of International Disputes, Disarmament and Arms Control- Problems and Issues

Books for Reference

Author	Title
1. Melkote Rama S & A.Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K.Ghai	- International Relations- Kalyani Pub – 2005
3. John Baylis	- Globalisation of the world Politics- OUP-2008
4. V.K.Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century Pearson-2010
6. Mahendra Gaur	- United Nations for a Better world – Alfa – 2006
7. Peu Ghosh	- International relations – PHI- 2009
8. Morgenthau Hans J	- Politics Among Nations: The Struggle for Power & Peace- Kalyani Pub- 1985
9. Goldstein	- International Relations – Pearson – 2006
10. Malhotra V K	- International Relations -Anmol Pub -2006
11. Mahendra Kumar	- Theoretical Aspects of International Relations-Shivalal Agarwal & Co- Agra-1995(Reprint)
12. Quincy Wright	- The Study of International Relations-Appleton Century Crafts New York 1955
13. ಡಾ.ವಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣ ಪ್ರಕಾಶನ - 2008
14. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಠಿಯನ್ - 2006
15. ಲೋಹಿತಾಶ್ವ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2010
16. ಕೆ.ಜೆ.ಸುರೇಶ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಚೇತನ ಬುಕ್ ಹೌಸ್, - 2007
17. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
18. ಹಾಲಪ್ಪ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2008

V SEMESTER

OPTIONAL 5.2 : INTERNATIONAL INSTITUTIONS & FOREIGN POLICIES

1. **International Relations** : Meaning, Nature, Importance, Sources & Sanctions, Universal Declaration of Human Rights & Related Covenants, Working of the International Court of Justice
2. **International Organisations** : League of Nations-Evaluation; United Nations, Purposes, Achievements, Shortcomings, UN & Environmental and Developmental Issues, Reforms and Restructuring of the United Nations
3. **Major Issues** : New International Economic Order, North-South and South-South Dialogues, Working of W.T.O., European Union, ASEAN & SAARC
4. **Foreign Policies of Major Powers** : United States, Russia and China
5. **Foreign Policy of India** : Origin & Objectives, India and South Asia, South East & West Asia; India and United Nations and India and the Non-Aligned Movement

Books for Reference

Author	Title
1. Melkote Rama S & A.Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K.Ghai	- International Relations- Kalyani Pub - 2005
3. John Baylis	- Globalisation of World Politics- OUP-2008
4. V.K.Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century - Pearson- 2010
6. Mahendra Gaur	- United Nations for a Better world - Alfa - 2006
7. Peu Ghosh	- International Relations - PHI - 2009
8. Morgenthau Hans J	- Politics among Nations: The Struggle for Power & Peace-Kalyani Pub- 1985
9. Goldstein	- International Relations - Pearson -2006(Reprint)
10. Malhotra V K	- International Relations - Anmol Pub-2006(Reprint)
11. Mahendra Kumar	- Theoretical Aspects of International Relations-Shivalal Agarwal &Co Agra-2006 (Reprint)
12. V.P.Dutt	- India's Foreign Policy Since Independence -NBT -1999
13. Quincy Wright	- The Study of International Relations-Appleton Century Crafts New York-1955
14. Rajiv Sikri	- Rethinking Indian Foreign Policy, Sage- 2009
15. ಡಾ.ಪಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣು ಪ್ರಕಾಶನ - 2008
16. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಲೆಯನ್ - 2006
17. ಲೋಕತಾಜ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2010
18. ಆರ್.ವಿ.ಹೊರಡಿ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ- 2010
19. ಕೆ.ಜೆ.ಸುರೇಶ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
20. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
21. ಹಾಲಜ್ಜ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2008

VI SEMESTER

PAPER 6.1: INDIAN CONSTITUTION- INSTITUTIONAL STRUCTURE

1. **Major Constitutional Developments** : 1909, 1935, 1947 Acts, Framing of the Constitution. Constituent Assembly at work, Preamble & Salient Features
2. **Key Components** : Citizenship, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties
3. **Union and State Legislatures** : Composition, Powers & Functions, Presiding Officers, Law making Process, Committees of Parliament, Decline of Legislatures, Reforms of Legislatures
4. **Union and State Executive** : President and Vice President-Elections, Powers and Functions, Prime Minister and Council of Ministers- Powers and Functions, Governor and Chief Minister- Council of Ministers- Powers and Functions. Debate over Parliamentary and Presidential Forms of Government
5. **Judiciary** : Supreme Court and High Courts, Composition, Jurisdiction, Right to Information Act, Judicial Activism, Judicial Reforms

Books for Reference

Author	Title
1. R.C.Agarwal	- Indian Government and Politics- S.Chand & Co-2007
2. V.D.Mahajan	- Constitution of India – S.Chand & Co – 2006.
3. Morris Jones	- Government and Politics of India – Author Press 1988
4. D.D.Basu	- Introduction to the Constitution of India – Wadhwa-2010(Reprint)
5. Srivatsava	- Indian Government and Politics
6. Subhas Kashyap	- Our Parliament – NBT – 1988
7. V.N.Shukla	- Constitution of India – Eastern Books - 1997
8. M.V.Pylee	- An Introduction to the Constitution of India-VIK-2007(Reprint)
9. R.B.Guttal	- The Constitution of India – Ajantha – 1990
10. Subhas Kashyap	- Constitutional Reforms, Problems, Prospects, Radha Pub- 2004
11. K.K.Ghai	- Indian Government and Politics- Kalyani Publishers-2005
12. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತದ ಸಂವಿಧಾನ – ಕಲಾ ಪ್ರಕಾಶನ – 1998
13. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತ ಸಂವಿಧಾನದ ಪರಿಚಯ – ಶಬರಿಮಲೆಯನ್ – 2005
14. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಮಾಹಿತಿ ಹಕ್ಕು – ಶಬರಿಮಲೆಯನ್ – 2007
15. ಮಂಗಳ ಮೂರ್ತಿ	- ಭಾರತ ಸಂವಿಧಾನ. ಮಾನವ ಹಕ್ಕುಗಳು ಮತ್ತು ಪರಿನರ – ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2007
16. ಹೆಚ್.ಉ.ರಾಮಕೃಷ್ಣ	- ಭಾರತ ಸಂವಿಧಾನ – ಲಲಿತ ಪ್ರಕಾಶನ – 2006
17. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ವಿದ್ಯಾನಿಧಿ- 2009
18. ರಾಜಶೇಖರ	- ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ಕಿರಣ್ – 2008
19. ಡಿ.ಉ.ದೇವೇಗೌಡ	- ಭಾರತ ಸಂವಿಧಾನ ಮತ್ತು ರಾಜಕೀಯ- ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2008
20. ಎಂ.ವಿ.ಆರ್.ರಾವ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಕಾನೂನು – ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ, ಮೈಸೂರು ವಿವಿ -1987
21. ಕಬ್ಬೂರಿ	- ಭಾರತ ಸಂವಿಧಾನ – ವಿಜ್ಞಾನ ಪಬ್ಲಿಕೇಶನ್ಸ್ – 2004

VI SEMESTER

PAPER 6.2: INDIAN CONSTITUTION – PROCESSES AND ISSUES

1. **Amendments of the Constitution : Methods of Amendment (Prodecure)**
Important Amendments: 1st, 24th, 25th, 42nd, 73rd, 74th, 77th, 93rd, Right to Education
2. **Election & Election Commission : Constitutional & Statutory Provisions. Election Commission – Organisation and Functions, Electoral Reforms**
3. **Political Parties, Interest Groups and Public Opinion : Organisation & Functions of Political Parties, National & Regional Parties, Reforms of Political Parties, Interest Groups, Types and Mode of Operation, Media and Public Opinion**
4. **Union-State Relations : Unitary & Federal Features, Legislative, Administrative & Financial Relations, Impact of Coalition Politics on Union-State Relations, State Autonomy & Sarkaria Commission Report**
5. **Major Issues : Secularism, Communalism, Social Justice, Regional Disparities, Internal Challenges to Nationhood, Right to Information, Environmental Protection, Role of National and State Commissions in the Protection of Human Rights**

Books for Reference

Author	Title
1. R.C.Agarwal	- Indian Government and Politics – S.Chand & Co- 2007
2. V.D.Mahajan	- Constitution of India – S.Chand & Co-2006
3. Morris Jones	- Government & Politics of India –Author Press 1988
4. D.D.Basu	- Introduction to the Constitution of India–Wadhwa – 2010(Reprint)
5. Srivatsava	- Indian Government and Politics-SBD-1982
6. Subhas Kashyap	- Our Parliament-NBT-1988
7. V.N.Shukla	- Constitution of India- Eastern Books – 1997
8. M.V.Pylee	- An Introduction to the Constitution of India-VIK-2007(Reprint)
9. R.B.Guttal	- The Consitution of India – Ajantha – 1990
10.Subhas Kashyap	- Constitutional Reforms, Problems, Prospects, Radha Pub- 2004
11.K.K.Ghai	- Indian Government and Politics- Kalyani Publishers-2005
12. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತದ ಸಂವಿಧಾನ – ಕಲಾ ಪ್ರಕಾಶನ – 1998
13. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತ ಸಂವಿಧಾನದ ಪರಿಚಯ – ಶಬರಿಮಲೆಯನ್ – 2005
14. ಮಂಗಳ ಮೂರ್ತಿ	- ಭಾರತ ಸಂವಿಧಾನ, ಮಾನವ ಹಕ್ಕುಗಳು ಮತ್ತು ಪರಿಸರ – ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2007
15. ಹೆಚ್.ಆ.ರಾಮಕೃಷ್ಣ	- ಭಾರತ ಸಂವಿಧಾನ – ಲಲಿತ ಪ್ರಕಾಶನ – 2006
16. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ವಿದ್ಯಾನಿಧಿ- 2009
17. ರಾಜಶೇಖರ	- ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ಕಿರಣ್ – 2008
18. ಡಿ.ಐ.ದೇವೇಗೌಡ	- ಭಾರತ ಸಂವಿಧಾನ ಮತ್ತು ರಾಜಕೀಯ- ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2008
19. ಕಬ್ಬೂರಿ	- ಭಾರತ ಸಂವಿಧಾನ – ವೀಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ – 2004
20. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನಾತ್ಮಕ ವ್ಯವಸ್ಥೆ – ವಿದ್ಯಾನಿಧಿ – 2001



BANGALORE UNIVERSITY

Jnana Bharathi Campus, Bangalore – 560 056

FACULTY OF ARTS

DEPARTMENT OF POLITICAL SCIENCE SYLLABUS for

BA SEMESTER SCHEME

For the Academic Year 2011-12



Dr. P.S.JAYARAMU
Professor & Chairperson

JNANA BHARATHI
BANGALORE - 56.

29th July 2010

**Proceedings of the Meeting of the Board of Studies in
Political Science (UG), 2010**

The meeting of the Board of Studies in Political Science (UG) was convened on 29th July 2010 at 11.00 A.M in the Conference Room of the Department of Political Science, Bangalore University, Jnana Bharathi, Bangalore. The following decisions/resolutions were taken/passed at the meeting:

1. Approved the Panel of Examiners for the B.A (Political Science), Semester and Annual Scheme examinations for the year 2010-11 and the Indian constitution Compulsory paper for the 2010-2011 examinations.
2. Recommended names for the chairman and members of the Board of Examiners for the above mentioned examinations.
3. The members approved the revised syllabus for being introduced from the academic year 2011-12 and resolved to request the University authorities to do the needful.
4. The Board unanimously resolved that the Compulsory paper on Indian Constitution should also be brought under Central Valuation from the academic year 2010-11. The Compulsory paper on Indian Constitution should be valued by teachers of Political Science only.
5. The Board also resolved that the work load for teaching of each paper should be 5 hours per week for all the semesters.

The following Members were present at the Meeting:

Name

Chairman:

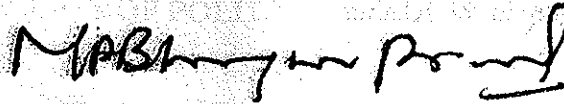
01. Dr.P.S.Jayaramu

Signature

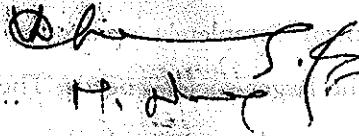
P.S. Jayaramu

Members:

02. Dr. Bhuvaneshwara Prasad



03. Prof. Dhanamma V



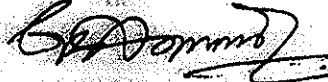
04. Sri. M. Narayanaswamy



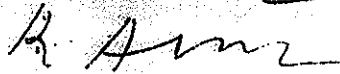
05. B.K. Dattatri



06. Prof. Sri. Ashwath G.R



07. Sri. Ashwath Reddy R



MEMBERS ABSENT :

08. Prof. Madanagiriappa

09. Prof. Neri Cornelio

10. Sri. Suresha



P.S. Jayaramu

INTRODUCTION TO THE B.A. POLITICAL SCIENCE COURSE

The B.A. Political Science Course offered by Bangalore University is spread over Six semesters. The objective of the course is to provide a firm grounding in the subject, develop 'analytical skills' and to provide a 'realistic' perspective to the local, national and international issues that figure in the syllabus.

The syllabus has been completely updated in keeping with the changing times and circumstances, as well as the larger societal needs. The course content includes papers in core areas of Political Science like Concepts of Political Science, Political Theories, Modern Governments, Political Thought – Western and Eastern, Public Administration, International Relations, International Institutions & Foreign Policies & Indian Constitution- Institutional Structure. The revised & updated bibliography paper wise has also been provided.

The goals and objectives of the B.A. Political Science Course are as follows:

- To impart quality education to those seeking admission to the B.A. Political Science Course.
- To equip the students to prepare themselves for careers in teaching and research, the Union and State civil services, and the non-governmental sector.
- To increase awareness among students on local, national and international issues, and strengthen their analytical skills and capabilities; and
- To train students to be good citizens.

SEMESTER SCHEME SYLLABUS
(To be effective from the Academic Year 2011-2012)

B.A. I SEMESTER

SI No	Paper No	Title of Paper	Page No.
1	PAPER -1	CONCEPTS OF POLITICAL SCIENCE	1

B.A. II SEMESTER

2	PAPER-2	POLITICAL THEORIES	2
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B.A. III SEMESTER

3	PAPER-3	MODERN GOVERNMENTS (With reference to the Constitutions of UK, USA and Switzerland)	3
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B.A. IV SEMESTER

4	PAPER 4	POLITICAL THOUGHT - WESTERN AND EASTERN	4
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B.A. V SEMESTER

5	PAPER 5.1	PUBLIC ADMINISTRATION	5
6	PAPER 5.2	INTERNATIONAL RELATIONS	6
7	OPTIONAL 5.1	INTERNATIONAL RELATIONS	7
8	OPTIONAL 5.2	INTERNATIONAL INSTITUTIONS & FOREIGN POLICIES	8

B.A. VI SEMESTER

9	PAPER 6.1	INDIAN CONSTITUTION- INSTITUTIONAL STRUCTURE	9
10	PAPER 6.2	INDIAN CONSTITUTION - PROCESSES AND ISSUES	10

QUESTION PAPER PATTERN

[B.A. (Political Science) 'Semester Scheme' Syllabus]

Total Marks: 90

Time: 3 hours

NOTE: Read Instructions carefully. All Parts - A, B and C - are compulsory except for their internal

options.

PART A

Instructions: Answer any three from the following in 60 words each.

All questions carry equal marks

5 x 3 = 15 marks

- 1)
- 2)
- 3)
- 4)
- 5)

PART B

Instructions: Answer any three questions from the following in 200 words each

All questions carry equal marks

10 x 3 = 30 marks

- 1)
- 2)
- 3)
- 4)
- 5)

PART C

Instructions: Answer any three questions from the following in 500 words each.

All questions carry equal marks

15 x 3 = 45 marks

- 1)
- 2)
- 3)
- 4)
- 5)

SYLLABUS FOR SEMESTER SCHEME-B.A.POLITICAL SCIENCE

I SEMESTER

PAPER-1: CONCEPTS OF POLITICAL SCIENCE

1. **Political Science** : Meaning, Nature, Scope & Importance. Approaches in Political Science-Historical, Normative, Behaviouralism and Post-Behaviouralism
2. **State** : Elements of State, Theories of State, Historical, Divine, Social Contract Theory, State in the age of Globalisation, State and Civil Society
3. **Sovereignty** : Meaning Characteristics and Kinds, Theories of Sovereignty, Contemporary Challenges to State Sovereignty
4. **Law and Justice** : Law- Meaning, Schools of Law-Historical, Philosophical, Comparative, Social and Marxian, Law & Governance, Liberty & Equality- Meaning & Kinds. Justice- Definitions- Social, Economic, Political and Legal, Rawl's Concept of Justice
5. **Rights and Duties** : Meaning & Kinds- Civil, Political, Social, Economic & Cultural, Human Rights with special References to Rights of Children, Women, Minorities and Disadvantaged Sections, Duties towards the State

Books for Reference

Author	Title
1. A.C.Kapur	-Principles of Political Science-S.Chand.& Co-1998 (Revised)
2. J.C.Johari	- Principles of Modern Political Science-Sterling-2007
3. Appadorai	- The substance of Politics OUP-1998(Reprint)
4. N.W.Agarwal	- Principles of Political Science-R.Chand & Co-2006.
5. Sahadipali	- Civil Society and Modern Politics-Global Vision-2004
6. Harold Laski	- Grammer of Politics-Surjeet-2005
7. B.K.Gokale	- Political Science-Theory & Government Machinery HPH-2008
8. Heywood	- Key Concepts of Politics-Ane-2009
9. John Rawls	- Concepts of Justice-Rawat Pub-1999
10. R.R.Sarana	- Behaviouralism and Political Theory-Rawat Pub-2001
11. A.AS.Joseph	- Capitalism, Socialism and Democracy-S.Chand & Co-1988
12. D.Deol	- Liberalism and Marxism-Sterling-1988
13. Krishna Iyer	- Human Rights and Wrongs
14. O'Byrne	- Human Rights- An Indtroduction-Pearson-2010
15. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಮೂಲಭೂತ ಪರಿಕಲ್ಪನೆಗಳು - ಕಲಾಪ್ರಕಾಶನ 2004
16. ಹಾಲಪ್ಪ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2005
17. ಮಾಲ ಮಧ್ವಣ್ಣ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಕಲಾ ಪ್ರಕಾಶನ - 2004
18. ರಾಮಕೃಷ್ಣ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ಲಲಿತ ಪ್ರಕಾಶನ - 2005
19. ಲೋಕಿತಾಶ್ವ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಪರಿಕಲ್ಪನೆಗಳು - ವಿದ್ಯಾನಿಧಿ - 2010
20. ಹಾಲಪ್ಪ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ - ವಿದ್ಯಾನಿಧಿ - 2008
21. ಕಬ್ಬೂರಿ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರದ ಮೂಲ ಪರಿಕಲ್ಪನೆಗಳು - ವೀಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ - 2004

PAPER-2: POLITICAL THEORIES

1. **Political Theory** : Meaning, Importance, Contemporary Trends: Liberalism: Classical, Modern and Neo-Liberalism
2. **Democracy** : Meaning and Kinds, Theories of Democracy-Classical, Pluralist, Marxist, Elitist, Challenges to Democracy
3. **Imperialism and Post Imperialism** : Meaning and Types, Neo-Colonialism and its Feature, Dependency Theory, Modernism and Post Modernism
4. **Socialism** : Meaning and Kinds of Socialism-Utopian Socialism, Democratic Socialism, Scientific Socialism, Market Socialism, Challenges to Socialism, Debate over end of Ideology
5. **Gandhism** : Principles, Means and Ends, Truth and Non-Violence, Satyagraha, Sarvodaya, Relevance of Gandhism in Modern Times.

Books for Reference

Author	Title
1. Andrew Hacker	- Political Theory: Philosophy, Ideology Science- Surjeet-2006.
2. G.P.Gauba	- Introduction to Political Theory- Macmilan-2006.
3. Heywood	- Political Ideologies-Palgrave-2003
4. Asirvatham	- Modern Political Theory- S.Chand & Co (1968) 2001 (Revised)
5. S.P.Varma	- Modern Political Theory- Vikas-1990 (Revised)
6. Earnest Barker	- Principles of Social and Political Theory-OUP-1987.
7. Manoj Sharma	- Political Theory and Thought- Anmol Publication-2004
8. G.H.Subine	- A History of Political Theory-OIBH-1998
9. Choudhury	- Political Theory-Traditional & Modern Justice-National-1999
10. Bikhu Parekh	- Gandhism. OUP 2004
11. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು- ಕಲಾ ಪ್ರಕಾಶನ - 2004
12. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಗಾಂಧೀ ವಿಚಾರಧಾರೆ - ಶಬರಿಮಲೆಯನ್ - 2005
13. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2004
14. ಡಾ.ದೇವೇಗೌಡ	- ಪ್ರಮುಖ ರಾಜಕೀಯ ಸಿದ್ಧಾಂತಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2004

III SEMESTER

PAPER 3 : MODERN GOVERNMENTS

(With reference to the Constitutions of UK, USA and Switzerland)

Salient Features

1. **Legislatures** : Composition, Powers and Functions, Law Making Process, Challenges to Legislatures in recent times
2. **Executive** : Types, Powers and Functions, Debate over the rising powers and role of the Executive
3. **Judicial System** : Composition, Powers and Jurisdiction, Supreme Court and Judicial Review
4. **Political Parties and Pressure Groups** : Nature & Functions
5. **Public Opinion** : Importance & Agencies of Public Opinion

Books for Reference

Author	Title
1. Bhattacharya	- Modern Political Constitutions- Vijaya-2003
2. K.K.Ghai	- Select Political System-Kalyani-2008
3. K.K.Ghai	- Major Governments- Kalyani-2008
4. A.C.Kapur	- Select Constitutions- S.Chand & Co-2006
5. J.C.Johari	- Major Modern Political Systems- Vishal-1987 (Revised)
6. S.Guptha	- Simple Study of World Constitutions- Ajantha-1997
7. B.C.Rai	- World constitutions- Prakasana Kendra -1998
8. S.R.Maheswari	-Comparative Government and Politics-Laxminarayana Agarwal 2004.
9. U.R.Ghai	- Political Systems of Switzerland- New Academic Pub-2003
10.Harihara Das	- Select Modern Governments- Anmol Pub-2000
11.Caramani Danic	- Comparative Politics- OUP-2008
12.V.K.Khanna	-Comparative Study of Government and Politics-R.Chand & Co-2007
13.Palekar	- Comparative Politics & Government-PHI-2010
14.R.N.Sharma	- Great Political Thinkers of the World
15.Suresh C Pant	- History of Western Political Thought: From Plato to Present Day Prakashan Kendra- 2009
16. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಆಧುನಿಕ ಸರ್ಕಾರಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 1999
17. ಡಾ.ಉ.ಡಿ.ವೇವೇಗೌಡ	- ಆಧುನಿಕ ಸರ್ಕಾರಗಳು - ಚೇತನ ಬುಕ್ ಹೌಸ್
18. ಕೆ.ಜಿ.ಸುರೇಶ್	- ಆಧುನಿಕ ಸರ್ಕಾರಗಳು - ಚೇತನ ಬುಕ್ ಹೌಸ್
19. ಹೆಚ್.ಉ.ರಾಮಕೃಷ್ಣ	- ಆಧುನಿಕ ಸರ್ಕಾರಗಳು - ಲಲಿತ ಬುಕ್ ಹೌಸ್
20. ಲೋಹಿತಾಸ್ವ	- ಆಧುನಿಕ ಸರ್ಕಾರಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ
21. ಮೂಲ: ಕೆ.ಸಿ.ವೀಯರ್ ಅನುವಾದ: ಮಹೇಶ್ವರಪ್ಪ	- ಆಧುನಿಕ ಸಂವಿಧಾನಗಳು - ಮೈಸೂರು ವಿವಿ - 1994

IV SEMESTER

PAPER 4 : POLITICAL THOUGHT – WESTERN AND EASTERN

1. **Ancient Greek Political Thought** : Ideas of Socrates, Plato-Ideal State, Justice, Education, Communism and Philosopher King. Aristotle- Concepts of State, Classification of Constitutions, Slavery and Revolution
2. **Medieval Political Thought** : Church & State in Medieval Europe. St. Augustine and Thomas Aquinas
3. **Modern Political Thought** : Political Ideas of Machiavelli and J.S. Mill
4. **Political Ideas** of Karl Marx and Harold J. Laski
5. **Eastern Political Thought** : Political Ideas of Manu, Kautilya and Shanti Parve of Mahabharatha

Books for Reference

Author	Title
1. Ghosh Birendranath Pub	- Glimpses of Political Thought- Western & Indian, Mahila Mangal Kolkata-2004
2. D.R. Bandari	- Studies in Plato and Aristotle- S.Chand & Co-1990
3. Venkat Rao	- History of European Political Philosophy- S.Chand & Co.
4. Venkat Rao	- Ancient Political Thought- S.Chand & Co-1990.
5. M.G. Gupta	- History of Political Thought- Chaithanya Pub-2000 (Reprint)
6. R.P. Sharma	- Western Political Thought- Sterling-1998
7. Wayper C L	- Political Thought- B.I. Publication-1988
8. V.P. Varma Agarwal-	- Ancient, Medieval, Indian Political Thought- Lakshminarayana 1982
9. V.P. Varma	- Modern Indian Political Thought- Lakshminarayana Agarwal-1982.
10. Mukerjee	- History of Political Thought- Plato-Prentice hall-1999
11. Appadorai	- Political Thought in India- Khanna-2002.
12. Manoj Sharma	- Political Thought- Anmol-2004
13. Pergara	- Chanakya Neeti Darpana- Surjeet Publications-2009
14. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಪ್ರಾಚೀನ ಭಾರತದ ರಾಜಕೀಯ ತಾತ್ವಿಕರು - ಶರಬರಿಮಲೆಯನ್ - 2008
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಆಧುನಿಕ ರಾಜಕೀಯ ಚಿಂತಕರು - ಶರಬರಿಮಲೆಯನ್ - 2009
16. ಮಾಲ ಮುದ್ದಣ್ಣ	- ರಾಜನೀತಿಜ್ಞರು - ಕಲಾ ಪ್ರಕಾಶನ - 2005
17. ವಿ.ಜಿ.ಸಾಲಮಠ	- ರಾಜ್ಯ ಶಾಸ್ತ್ರ ವೈಚಾರಿಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
18. ಎಚ್.ಸಿ.ಲೋಹಿತಾಶ್ವ	- ರಾಜಕೀಯ ಚಿಂತಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
19. ನವಲಗುಂದ	- ಪಾಶ್ಚಿಮಾತ್ಯ ಮತ್ತು ಭಾರತೀಯ ರಾಜನೀತಿ ವಿವೇಚಕರು - ವಿದ್ಯಾನಿಧಿ - 2007
20. ಕಲ್ಮಠ ಮತ್ತು ಶೀಲವಂತರ	- ಭಾರತೀಯ ರಾಜನೀತಿ ವಿವೇಚಕರು - ವಿದ್ಯಾನಿಧಿ - 2008
21. ಟಿ.ಡಿ.ದೇವೇಗೌಡ	- ಪಾಶ್ಚಿಮಾತ್ಯ ರಾಜಕೀಯ ಚಿಂತನೆ - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2007
22. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಪಾಶ್ಚಿಮಾತ್ಯ ರಾಜಕೀಯ ಚಿಂತಕರು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2008

V SEMESTER

PAPER 5.1: PUBLIC ADMINISTRATION

1. **Public Administration** : Meaning, Scope, Importance of Public Administration, Private and Public Administration: Differences, Organisation Theories and Principles, Line, Staff and Auxillary Agencies, Departments
2. **Dynamics of Management** : Meaning and Functions of Management, Chief Executive – Powers and Functions. Leadership- Qualities, Communication, Planning and Public Relations
3. **Personnel Administration** : Meaning and Importance, Recruitment, Training, Promotion, Morale, Discipline, Retirement
4. **Financial Administration** : Budget – Nature and Principles, Budgetary Process- Preparation, Enactment and Execution, Reforms in Financial Administration, Performance Budget, Zero Based Budget
5. **Trends in Public Administration** : Comparative Administration, Development Administration, Good Governance, E-Governance, Public Private Partnership

Books for Reference

Author	Title
1. Chakravarthy	- Reinventing Public Administration- Orient Longman-2007
2. C.P.Bhambri	- Public Administration-JPN-2002
3. L.D.White	- Public Administration- Surjeet Publications-2007
4. B.L.Fadia	- Administrative Theory- Sahitya Bhavan-2007
5. S.L.Goel	- Public Personnel Administration-Theory & Practice, Deep & Deep-2006
6. M.Bhattacharya	- New Horizons of Public Administration- Jawahar Pub-2006
7. S.R.Maheshwari	- Administrative Theory- Macmilan-2003.
8. Ramesh K. Arora	- Public Administration- Aalekh – 2004
9. K.K.Ghai	- Public Administration- Kalyani- 2008
10. S.C.Goel	- Advanced Public Administration- Deep & Deep – 2008
11. M.P.Sharma	- Public Administration- Theory and Practice- Kittab Mahal – 2009
12. Henry Nicolas	- Public Administration and Public Affairs- PHI – 2009
13. Rukmi Basu	- Public Administration- Sterling Pub- 2008
14. Avasthe&Maheshwari	- Public Administration – Lakshminarayana Agarwal.
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತದ ಮೂಲ ತತ್ವಗಳು - ಶಬರಿಮಲೆಯನ್ - 2006
16. ಎಚ್.ಬಿ.ರಾಮಕೃಷ್ಣ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಲಲಿತ ಪ್ರಕಾಶನ - 2002
17. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಪದ್ಮ ಪ್ರಕಾಶನ - 2002
18. ಎಚ್.ಕೃಷ್ಣರಾವ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಮೈಸೂರು ವಿವಿ - 1962
19. ನವಲಗುಂದ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2007
20. ಶಿಲವಂತರ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2007
21. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
22. ದಿನೇಶ	- ಅಭಿವೃದ್ಧಿ ಆಡಳಿತ - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
23. ಕಬ್ಬೂರಿ	- ಸಾರ್ವಜನಿಕ ಆಡಳಿತ - ವಿಜ್ಞಾನ ಪಬ್ಲಿಕೇಶನ್ಸ್ - 2006

V SEMESTER

PAPER 5.2: INTERNATIONAL RELATIONS.

1. **International Relations** : Nature and Importance, Idealist and Realist approaches, System and Decision making Theories
2. **National Power and Foreign Policy** : Elements of National Power, Evaluation of National Power, Formulation and Implementation of Foreign Policy, Role of diplomacy and Economic Instruments
3. **War and Terrorism** : Meaning, Causes and Types of war, Methods of Prevention of war, Terrorism and Methods of combating Terrorism.
4. **International Law** : Nature, Sources and Sanctions, Universal Declaration of Human Rights, Role of Non-Governmental Organisations in the promotion of Human Rights
5. **International Organisations** : League of Nations, Evaluation, United Nations- Working and Challenges

Books for Reference

Author	Title
1. Melkote Rama S & A.Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K.Ghai	- International Relations- Kalyani Pub – 2005
3. John Bayli's	- Globalisation of the world Politics- OUP-2008
4. V.K.Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century- Pearson-2010
6. Mahendra Gaur	- United Nations for a Better world – Alfa – 2006
7. Peu Ghosh	- International relations – PHI- 2009
8. Morgenthau.Hans J	- Politics among Nations: The Struggle for Power & Peace-Kalyani Pub- 1985
9. Goldstein	- International Relations – Pearson – 2006(Reprint)
10. Malhotra	- International Relations – Anmol Pub – 2006(Reprint)
11. Mahendra Kumar	- Theoretical Aspects of International Relations -Shivalal Agarwal & Co- Agra -1995(Reprint)
12. V.P.Dutt	- India's Foreign Policy Since Indipendance – NBT – 1987
13. Quincy Wright	- The Study of International Relations – Appleton Century Crafts New York-1955
14. ಡಾ.ಪಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣ ಪ್ರಕಾಶನ - 2008
15. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಲೆಯನ್ - 2006
16. ಲೋಹಿತಾಶ್ವ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ-2010
17. ಆರ್.ವಿ.ಹೊರಡಿ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ -2010
18. ಕೆ.ಜೆ.ಸುರೇಶ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2007
19. ಹೆಚ್.ಟಿ.ರಾಮಕೃಷ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಸ್ಥೆಗಳು - ಲಲಿತ ಪ್ರಕಾಶನ - 2006
20. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
21. ಹಾಲಪ್ಪ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2000

V SEMESTER

OPTIONAL 5.1: INTERNATIONAL RELATIONS

1. **International Relations** : Nature and Importance, Role of State and Non-State Actors, Idealist and Realist Approaches, Systems and Decision making Theories
2. **National Power and Foreign Policy** : Elements of National Power, National Security, Nature, Objectives and Formulation of Foreign Policy
3. **Instruments of Foreign Policy** : Diplomacy, Nature, Types and Functions, Alliances during Cold War and Post Cold war Period, Economic Instruments of Foreign Policy
4. **War and Terrorism** : Meaning, Causes, Types and Methods of Prevention of War, Terrorism; Combating Terrorism
5. **Approaches to International Peace** : Balance of Power, Collective Security, Pacific Settlement of International Disputes, Disarmament and Arms Control- Problems and Issues

Books for Reference

Author	Title
1. Melkote Rama S & A.Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K.Ghai	- International Relations- Kalyani Pub – 2005
3. John Baylis	- Globalisation of the world Politics- OUP-2008
4. V.K.Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century Pearson-2010
6. Mahendra Gaur	- United Nations for a Better world – Alfa – 2006
7. Peu Ghosh	- International relations – PHI- 2009
8. Morgenthau Hans J	- Politics Among Nations: The Struggle for Power & Peace- Kalyani Pub- 1985
9. Goldstein	- International Relations – Pearson – 2006
10. Malhotra V K	- International Relations -Anmol Pub -2006
11. Mahendra Kumar	- Theoretical Aspects of International Relations-Shivalal Agarwal & Co- Agra-1995(Reprint)
12. Quincy Wright	- The Study of International Relations-Appleton Century Crafts New York 1955
13. ಡಾ.ಪಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣ ಪ್ರಕಾಶನ - 2008
14. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಠಿಯನ್ - 2006
15. ಲೋಹಿತಾಶ್ವ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2010
16. ಕೆ.ಜಿ.ಸುರೇಶ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಚೇತನ ಬುಕ್ ಹೌಸ್ - 2007
17. ಮಾಲ ಮದ್ದಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
18. ಹಾಲಪ್ಪ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2008

V SEMESTER

OPTIONAL 5.2 : INTERNATIONAL INSTITUTIONS & FOREIGN POLICIES

1. **International Relations** : Meaning, Nature, Importance, Sources & Sanctions, Universal Declaration of Human Rights & Related Covenants, Working of the International Court of Justice
2. **International Organisations** : League of Nations-Evaluation; United Nations, Purposes, Achievements, Shortcomings, UN & Environmental and Developmental Issues, Reforms and Restructuring of the United Nations
3. **Major Issues** : New International Economic Order, North-South and South-South Dialogues, Working of W.T.O., European Union, ASEAN & SAARC
4. **Foreign Policies of Major Powers** : United States, Russia and China
5. **Foreign Policy of India** : Origin & Objectives, India and South Asia, South East & West Asia; India and United Nations and India and the Non-Aligned Movement

Books for Reference

Author	Title
1. Melkote Rama S & A. Narasimha Rao	- International Relations- Sterling Pub- 1983
2. K.K. Ghai	- International Relations- Kalyani Pub – 2005
3. John Baylis	- Globalisation of World Politics- OUP-2008
4. V.K. Khanna	- International Relations- R.Chand & Co- 2009
5. Moore	- New United Nations: Institutional Organisation in the 21 st Century - Pearson- 2010
6. Mahendra Gaur	- United Nations for a Better world – Alfa – 2006
7. Pen Ghosh	- International relations – PHI - 2009
8. Morgenthau Hans J	- Politics among Nations: The Struggle for Power & Peace-Kalyani Pub- 1985
9. Goldstein	- International Relations - Pearson -2006(Reprint)
10. Malhotra V K	- International Relations - Anmol Pub-2006(Reprint)
11. Mahendra Kumar	- Theoretical Aspects of International Relations-Shivalal Agarwal & Co Agra-2006 (Reprint)
12. V.P. Dutt	- India's Foreign Policy Since Independence -NBT -1999
13. Quincy Wright	- The Study of International Relations-Appleton Century Crafts New York-1955
14. Rajiv Sikri	- Rethinking Indian Foreign Policy, Sage- 2009
15. ಡಾ.ಪಿ.ಎಸ್.ಜಯರಾಮು	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಣ್ಣು ಪ್ರಕಾಶನ - 2008
16. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳ ಪರಿಕಲ್ಪನೆಗಳು - ಶಬರಿಮಲೆಯನ್ - 2006
17. ಲೋಕಿತಾಜ್ಜ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಸಂಘಟನೆಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2010
18. ಆರ್.ವಿ.ಹೊರಡಿ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು ಮತ್ತು ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಘಟನೆಗಳು-ವಿದ್ಯಾನಿಧಿ- 2010
19. ಕೆ.ಜೆ.ಸುರೇಶ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಜೇತನ ಬುಕ್ ಹೌಸ್ - 2007
20. ಮಾಲ ಮಧ್ವಣ್ಣ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ಕಲಾ ಪ್ರಕಾಶನ - 2002
21. ಕಾಲಪ್ಪ	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಸಂಬಂಧಗಳು - ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ - 2008

VI SEMESTER

PAPER 6.1: INDIAN CONSTITUTION- INSTITUTIONAL STRUCTURE:-

1. **Major Constitutional Developments** : 1909, 1935, 1947 Acts, Framing of the Constitution, Constituent Assembly at work, Preamble & Salient Features
2. **Key Components** : Citizenship, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties
3. **Union and State Legislatures** : Composition, Powers & Functions, Presiding Officers, Law making Process, Committees of Parliament, Decline of Legislatures, Reforms of Legislatures
4. **Union and State Executive** : President and Vice President-Elections, Powers and Functions, Prime Minister and Council of Ministers- Powers and Functions, Governor and Chief Minister- Council of Ministers- Powers and Functions. Debate over Parliamentary and Presidential Forms of Government
5. **Judiciary** : Supreme Court and High Courts, Composition, Jurisdiction, Right to Information Act, Judicial Activism, Judicial Reforms

Books for Reference

Author	Title
1. R.C.Agarwal	- Indian Government and Politics- S.Chand & Co-2007
2. V.D.Mahajan	- Constitution of India – S.Chand & Co – 2006.
3. Morris Jones	- Government and Politics of India – Author Press 1988
4. D.D.Basu	- Introduction to the Constitution of India – Wadhwa-2010(Reprint)
5. Srivatsava	- Indian Government and Politics
6. Subhas Kashyap	- Our Parliament – NBT – 1988
7. V.N.Shukla	- Constitution of India – Eastern Books – 1997
8. M.V.Pylee	- An Introduction to the Constitution of India-VIK-2007(Reprint)
9. R.B.Guttal	- The Constitution of India – Ajantha – 1990
10. Subhas Kashyap	- Constitutional Reforms, Problems, Prospects, Radha Pub- 2004
11. K.K.Ghai	- Indian Government and Politics- Kalyani Publishers-2005
12. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತದ ಸಂವಿಧಾನ – ಕಲಾ ಪ್ರಕಾಶನ – 1998
13. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತ ಸಂವಿಧಾನದ ಪರಿಚಯ – ಶಬರಿಮಲೆಯನ್ – 2005
14. ಡಾ.ಎಂ.ಪಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಮಾಹಿತಿ ಹಕ್ಕು – ಶಬರಿಮಲೆಯನ್ – 2007
15. ಮಂಗಳ ಮೂರ್ತಿ	- ಭಾರತ ಸಂವಿಧಾನ, ಮಾನವ ಹಕ್ಕುಗಳು ಮತ್ತು ಪರಿಸರ – ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2007
16. ಹೆಚ್.ಐ.ರಾಮಕೃಷ್ಣ	- ಭಾರತ ಸಂವಿಧಾನ – ಲಲಿತ ಪ್ರಕಾಶನ – 2006
17. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ವಿದ್ಯಾನಿಧಿ- 2009
18. ರಾಜಶೇಖರ	- ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ಕಿರಣ್ – 2008
19. ಡಿ.ಐ.ದೇವೇಗೌಡ	- ಭಾರತ ಸಂವಿಧಾನ ಮತ್ತು ರಾಜಕೀಯ – ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2008
20. ಎಂ.ವಿ.ಆರ್.ರಾವ್	- ಅಂತರರಾಷ್ಟ್ರೀಯ ಕಾನೂನು – ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ, ಮೈಸೂರು ವಿವಿ – 1987
21. ಕಬ್ಬೂರಿ	- ಭಾರತ ಸಂವಿಧಾನ – ವಿಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ – 2004.

VI SEMESTER

PAPER 6.2: INDIAN CONSTITUTION – PROCESSES AND ISSUES

- 1. Amendments of the Constitution : Methods of Amendment (Prodecure)**
Important Amendments: 1st, 24th, 25th, 42nd, 73rd, 74th, 77th, 93rd, Right to Education
- 2. Election & Election Commission :** Constitutional & Statutory Provisions. Election Commission – Organisation and Functions, Electoral Reforms
- 3. Political Parties, Interest Groups and Public Opinion :** Organisation & Functions of Political Parties, National & Regional Parties, Reforms of Political Parties, Interest Groups, Types and Mode of Operation, Media and Public Opinion
- 4. Union-State Relations :** Unitary & Federal Features, Legislative, Administrative & Financial Relations; Impact of Coalition Politics on Union-State Relations, State Autonomy & Sarkaria Commission Report
- 5. Major Issues :** Secularism, Communalism, Social Justice, Regional Disparities, Internal Challenges to Nationhood, Right to Information, Environmental Protection, Role of National and State Commissions in the Protection of Human Rights

Books for Reference

Author	Title
1. R.C.Agarwal	- Indian Government and Politics – S.Chand & Co- 2007
2. V.D.Mahajan	- Constitution of India – S.Chand & Co-2006
3. Morris Jones	- Government & Politics of India –Author Press 1988
4. D.D.Basu	- Introduction to the Constitution of India–Wadhwa – 2010(Reprint)
5. Srivatsava	- Indian Government and Politics-SBD-1982
6. Subhas Kashyap	- Our Parliament-NBT-1988
7. V.N.Shukla	- Constitution of India- Eastern Books – 1997
8. M.V.Pylee	- An Introduction to the Constitution of India-VIK-2007(Reprint)
9. R.B.Guttal	- The Constitution of India – Ajantha – 1990
10. Subhas Kashyap	- Constitutional Reforms, Problems, Prospects, Radha Pub- 2004
11. K.K. Ghai	- Indian Government and Politics- Kalyani Publishers-2005
12. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತದ ಸಂವಿಧಾನ – ಕಲಾ ಪ್ರಕಾಶನ – 1998
13. ಡಾ.ಎಂ.ವಿ.ಭುವನೇಶ್ವರ ಪ್ರಸಾದ್	- ಭಾರತ ಸಂವಿಧಾನದ ಪರಿಚಯ – ಶಬರಿಮಲೆಯನ್ – 2005
14. ಮಂಗಳ ಮೂರ್ತಿ	- ಭಾರತ ಸಂವಿಧಾನ, ಮಾನವ ಹಕ್ಕುಗಳು ಮತ್ತು ಪರಿಸರ – ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2007
15. ಹೆಚ್.ಟಿ.ರಾಮಕೃಷ್ಣ	- ಭಾರತ ಸಂವಿಧಾನ – ಲಲಿತ ಪ್ರಕಾಶನ – 2006
16. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ವಿದ್ಯಾನಿಧಿ- 2009
17. ರಾಜಶೇಖರ	- ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ – ಕಿರಣ್ – 2008
18. ಡಿ.ಟಿ.ದೇವೇಗೌಡ	- ಭಾರತ ಸಂವಿಧಾನ ಮತ್ತು ರಾಜಕೀಯ- ಚೇತನ ಬುಕ್ ಹೌಸ್ – 2008
19. ಕಬ್ಬೂರಿ	- ಭಾರತ ಸಂವಿಧಾನ – ವಿಣಾ ಪಬ್ಲಿಕೇಶನ್ಸ್ – 2004
20. ಶೀಲವಂತರ	- ಭಾರತದ ಸಂವಿಧಾನಾತ್ಮಕ ವ್ಯವಸ್ಥೆ – ವಿದ್ಯಾನಿಧಿ – 2001

Revised Syllabus-2007

FIRST SEMESTER PAPER – 1

HISTORY OF INDIA – 1

UNIT-I: - Introduction- Survey of Sources, Modern writings on Ancient India (Max Muller, James Mill, K.P.Jayaswal, D.D.Kosambi). Influence of Geography on History, Harappan Civilization – Urban Civilization – Society and Religion – Trade contacts – Recent Excavations - Arya – Dravida Debate.

UNIT-II :- Vedic Period: Early Vedic Period – Pastoral Society – Assemblies – Priest and Rajanya – The Eastward Movement – Kingship and Paramountcy – Emergence of a stratified society – Varna and Jati – Vedic Literature –Religion –Women - Kushanas.

UNIT-III :- Movements of Dissent and Protest –Jainism and Buddhism – Legacy - Mauryas – Kautilya - Ashoka and his Dharma – State and Economy - Art and Architecture.

UNIT-IV :- Gupta and Post-Gupta Periods – Administration – Society- Literature – Science And Technology – Religious Revival –Art and Architecture –Urbanization -Agrarian structure in Post-Gupta Period- Vardhanas- Cultural Contributions.

UNIT-V: - The South: The Sangam Society and Culture – Pallavas - Religion - Alvars, Nayanmars – (Mahendravarma, Narasimhavarma) – Art and Architecture – The Cholas (Rajaraja Chola, Rajendra Chola I), Chola administration – Art and Architecture.

MAPS: (Locate any 10 centres only)

1. Harappan sites
2. Religious Centres(Jaina and Buddhist)
3. Sites of Trade and Commercial Importance.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and mention their Historical importance)

1)Harappa 2)Ujjain 3)Lothal 4)Bodhgaya 5)Sarnath 6)Pataliputra 7)Taxila 8)Prayag
9)Sanchi 10)Purushapura 11)Nalanda 12)Broach 13)Maski 14)Kanauj 15)Sopara
16) Kaveripattinam 17)Ajanta 18)Kancheepuram 19)Mahabalipuram 20)Tanjavur

Books for study and reference:

1. R. C. Majumdar et. al . : Advanced History and India.
2. D. D. Kosambi :An Introduction to Indian History.
3. Romila Thapar : Ancient India .
4. Romila Thapar : Ancient Indian History .
5. R. S. Sharma : Indian Feudalism .
6. R. S. Sharma : History of Indian Political Ideas and Institutions.
7. A. S. Altekar : State and Government in Ancient India .

8. U. N. Goshal :History of Indian Political Ideas.
9. R. G. Bhandarkar : Political Ideology in Ancient India .
10. R. G. Bhandarkar : Early History of Deccan (Two Vols .).
11. K. A. Nilakanta Sastry :A History of South India .
12. A. L. Bhasyam :The Wonder that was India .
13. Sadananda Kanavalli (tra.): Bharathada Itihasa .
14. H. V. Srinivasa Murthy :History and Culture of South India to 1000 A.D.
15. N. Subramaniam :Sangam Polity .

ಹಿನ್ನೆಲೆ ಅಪ್ ಇಂಡಿಯ - 1

1. ಆರ್. ಸಿ. ಮುಖಂದಾರ್ ಮತ್ತು ಇತರರು(ಅನುವಾದ) ಭಾರತದ ಫ್ರೆಡ್ ಇತಿಹಾಸ
ಎಚ್. ವೈ. ಶಾರದಾಪ್ರಸಾದ್, ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾಲಯಪ್ರಕಟಿತ
2. ಶಿವರುದ್ರಸ್ವಾಮಿ ಎನ್. ಎನ್. ಭಾರತದ ಇತಿಹಾಸ (ಆರಂಭದಿಂದ 1200 ರ ವರೆಗೆ)
3. ಜಿ. ಆರ್. ರಂಗಸ್ವಾಮಯ್ಯ ಪ್ರಾಚೀನ ಭಾರತ
4. ಎನ್. ಪಿ. ಶಂಕರನಾರಾಯಣರಾವ್ ಪ್ರಾಚೀನ ಭಾರತ

SECOND SEMESTER PAPER – II

HISTORY OF INDIA FROM 1206-1707AD

UNIT-I: - Survey of Sources – Brief Introduction to Advent of Islam – The Sultanate Foundation, Illutmish, Razia Begum, Balban - Administrative structure –Turkish nobility and the Ulema – Influence of Persian Culture.

UNIT-II:- The Khiljis – Allauddin Khilji -Administration & Economic Reforms – Tughlaqs- Political and Economic Experiments of Mohammed Bin Tughluq- Feroz Shah Tugluq's Economic Measures.

UNIT-III:- The Mughuls – Foundation – Shershah's Administration – Consolidation under Akbar – The Rajputs – Akbar's Rajput Policy – Religious Policy – Administrative Structure – Mansabdari System – Aurangzeb's Deccan Policy – Decline of the Mughal Empire.

UNIT-IV:- Society, Culture, Economy under the Mughals, Emergence of New Social Classes – Status of Women – Emergence of a Composite Culture – Bhakti and Sufi Movements(Mira, Chaitanya, Kabir, Nanak, Ramananda, Ramdas, Moin-ud-din Chisti) – Architecture and Fine Arts under the Mughals – Mughal Economy – Trade and Commerce.

UNIT-V:- Rise of Marathas – Shivaji – Administration.

MAPS: (Locate any 10 Centres only)

1. Mughal Architectural Centres,
2. Trade and Commercial Centres
3. Extent of Shivaji's Empire

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1)Delhi 2)Devagiri 3) Ajmer 4) Dwarasamudra 5)Agra 6) Surat 7) Panipet 8)Rameshwaram
9) Shivaner 10)Poona 11) Ahmednagar 12) Fatehpur Sikri 13) Chittor 14) Sasaram
15) Amritsar 16) Khandesh 17)Mathura 18) Ranthambor 19)Bijapur 20) Jinjee

Books for study and reference:

1. Iswari Prasad : Medieval India .
2. Mohd. Habib & K.A. Nizami : Comprehensive History of India . Vol. V & VI .
3. A. L. Srivastava : Sultanate of Delhi .
4. Tapan Ray Chaudhri & Irfan Habib : Cambridge Economic History of India Vol. 1.
5. R. C. Majumdar : The Mughal Age.
6. R. S. Tripathi : Decline & Fall of Mughal Empire .
7. J. N. Sarkar : The Mughal Administration .
8. Mohd. Habeeb : Medieval History of India .
9. Moreland : India from Akbar to Aurangzeb .
10. Jadunath Sarkar : The Maratha Polity .
11. Dr. Shivanna : Madyakaleena Bharathada Arthica Ithihasa .
12. T. V. Mahalingam : Administration & Social Life Under Vijayanagar 2Vols.
13. B. N. Luniya : Evolution of Indian Culture.
14. Irfan Habib : Agrarian System in Mughal India .
15. I. H. Qureshi : The Sulthanate of Delhi .
16. T. V. Mahalingam : South Indian Polity .

ಹಿನ್ನೆರಿ ಆಪ್ ಇಂದಿಯ - 2

- | | |
|--|-------------------------------------|
| 1. ಶಿವಣ್ಣ | ಮಧ್ಯಕಾಲೀನ ಭಾರತದ ಅರ್ಥಿಕ ಇತಿಹಾಸ |
| 2. ಎ. ವಿ. ನರಸಿಂಹಮೂರ್ತಿ ಮತ್ತು ಇತರರು(ಅನುವಾದ) | ಭಾರತೀಯ ವಿದ್ಯಾಭವನದ ಸಂಪುಟಗಳು |
| 3. ಶಿವರುದ್ರಸ್ವಾಮಿ ಎಸ್. ಎಸ್. | ಭಾರತದ ಇತಿಹಾಸ (ಕ್ರಿ. ಶ. 1200 - 1761) |
| 4. ಪ್ರಧಾನ ಗುರುದತ್ (ಅನುವಾದ) | ಭಾರತೀಯ ಸಮಾಜದ ಐತಿಹಾಸಿಕ ವಿಶ್ಲೇಷಣೆ |
| 5. ಎಚ್. ಎಸ್. ಗೋಪಾಲರಾವ್ | ಭಾರತೀಯ ಬಹುಮುಖಿ ಸಂಸ್ಕೃತಿ |

THIRD SEMESTER PAPER - III**KARNATAKA - SOCIETY, ECONOMY AND CULTURE.**

UNIT-I: - Introduction - The Satavahanas - The Formation of States, Society- Agrarian Structure (Feudalism), Kadambas - Land Grants - Emergence of Agraharas - Educational System- Chalukyas - Guild System (Aihole 500)

UNIT-II :- Vijayanagara - Society (Caste System and Status of Women), State Income(Agriculture, Industrial and Irrigation Taxes) Trade Contacts - Guilds(Craft Guilds and Merchant Guilds) State

Income And Trade Contacts of Shahis (Bahamanis, Adil Shahis) Keladi Revenue Policy- Tippu's Economic Innovations.

UNIT-III:- Religion and Philosophy - Impact of Janism - New Religious Sects (Advaita, Dwaita, Vishistadvaita, Kalamukha and Shakta Cults) Virashaivism - Haridasa Movement, Sufism - Christianity and its Impact.

UNIT- IV:- Literature: Literary Contributions - Pampa - Basava - Akkamahadevi - Purandaradasa - Kanakadasa - Kuvempu - Bendre, Architecture - Chalukyas of Badami, Hoysalas, Vijayanagara and Bahamani and Adil Shahi Styles.

UNIT- V: - Impact of the West - Nationalism- Freedom Movement- Unification of Karnataka.

Contemporary Issues:

1. Politics of Assertion and Social Justice(Backward Class Movement, Dalit Movement and
2. Progressive Movement, Gokak 'Chaluvali', Raitha Sangha)
3. Border Dispute (Mahajan Commission).
4. River - Water Dispute.

MAPS: (Locate any 10 centres only)

1. Centres of Religious Importance.
2. Centres of Art & Architecture.
3. Centres of Freedom Struggle.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1) Pratihthana 2) Banavasi 3) Nagavi 4) Badami. 5) Aihole 6) Belur 7) Halebidu
- 8) Hampi. 9) Keladi 10) Bidar 11) Bijapur 12) Srirangapatna 13) Mysore 14) Bangalore
- 15) Isur 16) Vidurashwatha 17) Shivapur 18) Belgaum 19) Kittur 20) Belligave

Books for study and reference:

1. R. R. Diwakar, (Ed.) : Karnataka Through the Ages .
2. R. R. Diwakar, (Ed.) : Karnataka Parampare (Kannada) 2 Vols.
3. H. Tipperudraswamy : Karnataka Samskrthi Sameekshe (Kannada).
4. Shamba Joshi : Karnataka Samskruthiya Poorva Peetike .
5. A. S. Altekar : Rastrakutas and Their Times.
6. M. Chidananda Murthy : Kannada Shasanagala Samskrutika Adhyayana (Kannada).
7. G. M. Moraes : The Kadamba Kula.
8. M. V. Krishna Rao : The Gangas of Talakad.
9. C. Hayavadana Rao : History of Mysore 3 Vols.
10. K. Raghavendra Rao : Imaging The Unimaginable.
11. S. Chandrashekar : Adhunka Karnatakada Andolanagalu (Kannada).
12. S. Chandrashekar : Sahitya Mathu Charitre (Kannada).
13. Suryanatha U. Kamath : Karnatakada Sanskshipta Itihasa.
14. D. V. Gundappa : Jnapaka Chitrashale.
15. S. Rajashekara : Karnataka Art & Architecture.
16. K R. Basaraja : History and Culture of Karnataka

ಕರ್ನಾಟಕ - ಸಮಾಜ, ಆರ್ಥಿಕ ಮತ್ತು ಸಂಸ್ಕೃತಿ

ಬಿ. ಷೇಕ್ ಅಲಿ, ಪ್ರಧಾನ ಸಂಪಾದಕರು

ಕರ್ನಾಟಕ ಇತಿಹಾಸ - ಏಳು ಸಂಪುಟಗಳು

ಡಾ || ಶಿವರುದ್ರಸ್ವಾಮಿ ಎಸ್. ಎನ್.

ಕರ್ನಾಟಕದ ಫೌಢ ಇತಿಹಾಸ ಮತ್ತು ಸಂಸ್ಕೃತಿ

ಡಾ || ಆರ್ ರಾಮಕೃಷ್ಣನ್ ಮತ್ತು

ಕರ್ನಾಟಕದ ಚರಿತ್ರೆ

ಡಾ || ಹೆಚ್. ವಿ. ಶ್ರೀನಿವಾಸ ಮೂರ್ತಿ

FOURTH SEMESTER PAPER – IV**HISTORY AND TOURISM IN INDIA**

UNIT – I: Introduction – Study of Tourism – History as a Tourism Product – Types of Tourism – Tourism Through the Ages – Beginnings to the Medieval Times – Modern Tourism – Sargent Committee.

UNIT – II: Tourism Development – Basic Infrastructure – Supportive Services – Tourism Planning and Policy – Tourism and Environment – Towards Sustainable Tourism – Conservation of Cultural Heritage and Resources – Protection of Ancient Monuments Act – Museum Act.

UNIT – III: Tourism Organization – International, National and Regional – IAOTO, WTO and PATA; Strengthening Indian Tourism Industry – Impact of Tourism - ITDC, KSTDC; Role of Travel Agencies – Tourism Marketing and Management – Training Personnel for Tourism.

UNIT – IV: Tourism and Karnataka – Historical Sites, World Heritage Sites – Hampi and Pattadakal Monuments – Beach Resorts and Adventure Tourism in Karnataka.

MAPS: (Locate any 10 Centres only)

1. Heritage Sites in India.
2. Wild Life Sanctuaries.
3. Tourism Circuits in Karnataka.

PLACES OF IMPORTANCE:**(Locate and Mention their importance)**

- 1)Allahabad 2)Nandi 3)Bandipura 4)Dandeli 5)Taxila 6)Prayag 7)Kasi 8)Ajantha
9)Ellora 10)Hampi 11)Ramanagara 12)Aihole 13)Pattadakallu 14)Delhi 15)Fatehpur Sikri
16)Konark 17)Khajuraho 18)Simla 19)Darjeeling 20)Jaipur 21)Panaji 22)Mount Abu.

Books for study and reference:

1. G.S. Batra – Tourism in the 21st Century
2. G.S. Batra & Dangwal R.C – Tourism Promotion and Development.

3. Brijendra Punic – Tourism Management, Problems and Prospects
4. Deams Foster – An Introduction to Travel and Tourism
5. Donald Lund berg E & Carolyn Lund berg – Interwal, Travel and Tourism
6. Gupta T.C. Sushma Kashekar – Tourism Products in India

ಭಾರತದ ಇತಿಹಾಸ ಮತ್ತು ಪ್ರವಾಸೋದ್ಯಮ

- | | |
|-------------------------------|--------------------------------|
| 1. ಶಿವರುದ್ರಸ್ವಾಮಿ ಎಸ್. ಎಸ್. | ಭಾರತೀಯ ಪ್ರವಾಸೋದ್ಯಮ |
| 2. ಡಾ ಬಿ ಆರ್ ಪರೀಣೀತ | ಭಾರತದ ಇತಿಹಾಸ ಮತ್ತು ಪ್ರವಾಸೋದ್ಯಮ |
| 3. ಡಾ ಕೆ. ಎಸ್. ವಿಜಯಲಕ್ಷ್ಮಿ | ಇತಿಹಾಸ ಮತ್ತು ಪ್ರವಾಸೋದ್ಯಮ |

FIFTH SEMESTER PAPER – V

HISTORY OF MODERN INDIA

UNIT-I: - Introduction – Entry of European Companies and their Impact on Indian Polity – Growth of Mercantilism – Wars and Consolidation of the British Empire (Plassey, Buxar, Carnatic) – 1857 Revolt.

UNIT - II: - British Land Revenue Mechanism – (Permanent Settlement – Ryotwari – Mahalwari Systems) – Commercialization of Agriculture – Rural Indebtedness – Famines – Tariff Policy – Economic Nationalism and Drain Theory.

UNIT - III :- The Debate Over English Education – The Socio – Religious Reform Movements– Pan –Islamic Movement –Rise & Growth and Nationalism- Indian National Congress – The Early Phase – Gokhale- Tilak – Muslim League – Entry of Gandhi and Mass Mobilization – Non Co-operation Movement – Simon Commission – Civil Disobedience Movement – Ambedkar and Poona Pact.

UNIT - IV: - Towards Freedom – The Left Movement – Labour and Peasant Movements – II World war and Quit India Movement – Communalism – Mount Batten Plan – Partition and Independence – Integration of Princely States.

MAPS: (Locate any 10 centres only)

1. Early European Settlements.
2. Places Connected with 1857 Movement.
3. Places connected with Indian National Movement.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1)Calicut 2)Calcutta 3)Plassey 4)Buxar 5)Champaran 6)Madras 7)Mahe 8)Surat
9)Pondicherry 10)Goa 11)Jhansi 12)Chauri Chaura 13)Murshidabad 14)Chandranagore

15)Lahore 16)Amritsar 17)Dandi 18)Naokhali 19)Mahad 20)Belgaum

Books for study and reference:

1. Sumith Sarkar : Modern India.
2. Percival Spear : Modern India.
3. A. R. Desai : Social Background of Indian Nationalism.
4. J. P. Andrews : The Renaissance in India.
5. C. Y. Chinthamani : Indian Politics Since The Mutiny.
6. Annie Besant : India A Nation.
7. R.C. Majumdar : History of Political Thought From Ram Mohan To Dayananda.
8. Bipan Chandra &Et.al. Indian Struggle for Independence.
9. Bipan Chandra : Freedom Struggle (NCERT)
10. Bipan Chandra, Barunde & Amallesh Tripathi : Modern India (NCERT).
11. Raj Mohan Gandhi : The Good Boat Man.
12. Jawaharlal Nehru : Discovery of India.
13. Ravindra Kumar : Essays on the Social History of Modern India.

ಆಧುನಿಕ ಭಾರತ

ಡಾ || ಎಸ್. ಎಸ್. ಶಿವರುದ್ರಸ್ವಾಮಿ - ಆಧುನಿಕ ಭಾರತದ ಇತಿಹಾಸ (1707 ರಿಂದ ಇಂದಿನವರೆಗೆ)

FIFTH SEMESTER PAPER – VI (A)

HISTORY OF EUROPE 1500-1945

UNIT –I: - Industrial Revolution and its Impact – Rise of Capitalism and Socialism – Karl Marx – Enlightened Monarchy- A brief Overview

UNIT – II:- French Revolution – Crisis of the Old Regime – Intellectual Currents - Participation of Social Classes – Napoleon Bonaparte – Continental System – Reforms – Congress of Vienna 1815 –Growth of Liberalism and Socialism

UNIT -III:- Nationalism and Movements for Unification – Italy and Germany – Bismarck – Diplomacy and System of Alliances – Eastern Question – Power Blocs – First World War – Russian Revolution

UNIT- IV: Europe between 1919 – 1939 - Peace Settlements- Versailles- The Great Depression and Economic Recovery- Fascism and Nazism - Factors leading to Second World War and Impact of the War.

MAPS: (Locate any 10 centres only)

1. Centres of Industrial and French Revolution.
2. Centres Unification Movements - Italy and Germany.

3. Theatres of World Wars 1 and II.

PLACES OF HISTORICAL IMPORTANCE

(Locate and Mention their Historical importance)

- 1)Frankfurt 2)Rome 3)Turin 4)Naples 5)Milan 6)Leningrad 7)Paris 8)Berlin 9)Dunkirk
10)Vienna 11)Waterloo 12)Versailles 13)Leipzig 14)Moscow 15)London 16)Piedmont
17) Aixla Chapelle 18) Yalta 19) Potsdam 20) Munich.

Books for study and reference:

1. J.A.R Marriott: A History of Europe.
2. J.M.Thompson: The French Revolution.
3. Eric Hobsbawn: The Age of Empire 1875-1914.
4. Eric Hobsbawn: The Age of Extremes.
5. Eric Hobsbawn: A History of the World 1914-1921.
6. Eric Hobsbawn: The Age of Captial 1848-1875.
7. Eric Hobsbawn: The Age of Revolution 1789-1875.
8. Bimal Chakraborty: The United Nations and the Third World-Shifting Paradigms.
9. T.K.Derry: The United Kingdom.
10. C.D.M.Ketelbey: A History of Europe in Modern Times from 1789.
11. C.D.M.Ketelbey: A Short History of Modern Europe.
12. J.R.Hale: Renaissance Europe 1480-1520.
13. C.J.H.Hayes: Contemporary World from 1870.
14. A.J.Grant: Europe in the Last Five Centuries.
15. Grant and Others: Europe in the Nineteenth and Twentieth Centuries.
16. J.E.Swain: A History of World Civilization.
17. H.K.Smith: The State of Europe.
18. John Lukacs: A History of the Cold War.
19. A.Dayal: A Text Book of Modern Europe.
20. D.Thomson: Europe since Napolean.

ಯೂರೋಪಿನ ಇತಿಹಾಸ

- ಡಾ || ಎಸ್. ಎಸ್. ಶಿವರುದ್ರಸ್ವಾಮಿ - ಆಧುನಿಕ ಯೂರೋಪಿನ ಇತಿಹಾಸ (ಕ್ರಿ. ಶ. 1500 ರಿಂದ ಇಂದಿನವರೆವಿಗೂ)
ಘಟಪಾಡಿ ಜಿ ಎಸ್. - ಆಧುನಿಕ ಯೂರೋಪ್ (ಅನುವಾದ ಹೇಸನ್)

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FIFTH SEMESTER PAPER – VI (B)

HISTORY OF CHINA AND JAPAN SINCE 1900

UNIT – I: Introduction – Transition to Modernity – European Intervention in China and Japan – Sino-Japanese War 1894-95 – Rise of Nationalism (Taiping Rebellion, 100 Days Reform, Boxer Rebellion, Open Door Policy – Constitutional Reforms of 1904) – Revolution of 1911 – Causes and Results – Phantom Republic.

UNIT – II:- Rise of Kuomintang Party – Dr. Sun-Yat-Sen and the Three Principles- Chiang-kai Shek and Nationalist China – Origin and Growth of Communist Party – Mao-Tse-Tung- Civil War in China – People's Republic of China – Cultural Revolution of 1966

UNIT – III:- Rise of Nationalism in Japan – Meiji Restoration – Emergence of Japan as a World Power – Anglo-Japanese Alliance 1902 – Russo-Japanese War of 1904-05 – Treaty of Portsmouth.

UNIT – IV: Japanese Imperialism and the First World War – Washington Conference 1921-22 – Militant Nationalism in Japan – Japan and the Second World War – Allied Occupation of Japan – Post War Japan – Treaty of San Francisco.

MAPS: (Locate any 10 centres only)

1. Centres of Western Influence in China.
2. Chinese territories under Japanese Occupation in First World War
3. Japanese Conquests in Asia during Second World War.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1)Peking 2)Shensi 3)Manchuria 4)Hong Kong 5)Tokyo 6)Kwangtung 7)Nanking
8)Shantung 9)Hunan 10)Nagasaki 11)Canton 12)Macao 13)Mukden 14)Hiroshima
15)Shanghai 16)Kyoto 17)Kanagawa 18)Port Arthur 19)Formosa 20) Yokohama

BOOKS FOR STUDY: (To be included)

Books for study and reference.

1. Modern Japan – Arthur Tiedmann
2. History of the far East in Modern times – Shivakumar and S. Jain
3. Rise and growth of Modern Japan – M.D. David
4. Rise and growth of Modern China – M.D. David
5. Modern China – D. Nelson Rowee
6. History of Japan – A.K. Mukherjee.
7. History of the Far East – R.K. Manjumdar.
8. History of Modern Japan – R.S. Chaurasia.
9. History of Far East – R.S. Chaurasia.
10. History of Asia – B.V. Rao.
11. Asia and Western Dominance – K.M. Panikkar.
12. The Far East – P.H. Clyde and B.F. Beers.

13. History of Modern China – R.S. Gupta
14. History of the Far East – K.S. Latourthe.
15. Modern Asia – M.N Venkataramanappa
16. History of Asia – Sheik Ali & Muddachari
17. Adhunika Asia – R G Shivanna

1900 ರ ನಂತರದ ಚೀನ ಮತ್ತು ಜಪಾನಿನ ಇತಿಹಾಸ

ಬಿ. ಮುದ್ದಾಚಾರಿ -	ಅಧುನಿಕ ಏಷ್ಯ
ಆರ್. ಜಿ ಶಿವಣ್ಣ -	ಅಧುನಿಕ ಚೀನಾ ಮತ್ತು ಜಪಾನ
ಕೆ. ಎನ್. ಶಿವಣ್ಣ -	ಅಧುನಿಕ ಚೀನಾ
ಕೆ. ಎನ್. ಶಿವಣ್ಣ -	ಅಧುನಿಕ ಜಪಾನ

SIXTH SEMESTER PAPER – VII

INDIA AFTER INDEPENDENCE

UNIT – I:- Problems in the New Republic – Integration of Princely States — Center- State Relations – Reorganization of States on Linguistic Bases- An Overview India in the Nehru Era – Economic Planning -Foreign Policy – Non-Alignment – India and her Neighbours (China, Pakistan) – India’s Nuclear Policy

UNIT - II:- Contemporary Politics – Hegemony of the Congress - Parties of the Right – The Left -Socialist and Communist Movements – Indira Gandhi and Emergency – Regional Political Parties (DMK, Akali Dal and Telugu Desam) - Janata Experiment – Rajiv Regime

UNIT – III:- Realignment of Political Forces – Mandal Commission – Minorities and OBC’s – Ambedkarism and Dalit Movement – Politics of Women’s Empowerment.

UNIT - IV:- Religion and Politics – Fundamentalism – Secularism and Communalism – Tools for Communalization of Society – The Cultural Scenario – Educational and Cultural Bodies (NCERT, UGC, ICSSR, ICCR, ICHR) – Environment Movements – Concept of Social Justice in the context of LPG

MAPS: (Locate any 10 centres only)

1. Union Territories and State Capitals of India.
2. Native States in Integrated into Indian Union.
3. Linguistics States created in 1956.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1) Srinagar 2)Junagad 3)Hyderabad 4)Mysore 5)Kargil 6)Nathula 7)Sriperambudur
8) Amritsar. 9)Jaipur 10)Simla 11)Bangalore 12)Chennai 13)Sardar Sarovar 14)Puruliya
15) Pokhran 16)Siachen 17)Godra 18)Ayodhya 19)Naxalbari 20)Rai Bareli

Books for study and reference:

1. Baldev Raj Nayar: Globalization & Nationalism – The Changing Balance in India's Economic Policy 1950- 2000.
2. Narendra pani: Inclusive Economics – Gandhian Method and Contemporary Policy.
3. Sangeetha Purushotham: Grassroots Women's Networks and the State.
4. Ajay K Mehra & et.al. (Ed.): Political Parties and Party Systems.
5. Zoya Hasan (Ed.): Politics and the State in India.
6. Peter Ronald de souza: Contemporary India – Transactions.
7. J. N. Dixit: Indian Foreign Policy 1947 – 2003.
8. Puniyani: Communal Politics – Facts and Myths.
9. Sumantra Bose: The Challenge of Kashmir.
10. Bipan Chandra: Ideology and Politics in Modern India.
11. Bipan Chandra et.al.: India after Independence 1947.
12. R.P.Bhalla: Elections in India – Legacy and Vision.
13. Paul R Brass: Politics of India Since Independence.
- 14 Chaudhary D S: Nehru & Nation Building.
- 15 Gore M S: Unity in Diversity: The Indian Experience in Nation Building.

ಸ್ವಾತಂತ್ರ್ಯೋತ್ತರ ಭಾರತ

ಡಾ || ಎನ್. ಎನ್. ಶಿವರುದ್ರಸ್ವಾಮಿ - ಸ್ವಾತಂತ್ರ್ಯೋತ್ತರ ಭಾರತ (ಕ್ರಿ. ಶ. 1947 ರಿಂದ ಇಂದಿನವರೆವಿಗೂ)

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SIXTH SEMESTER PAPER –VIII (A)

CONTEMPORARY WORLD

UNIT – I:- Post Second World War – UNO – Accomplishments and failures – Challenges before UN – An Evaluation – Bipolar World – Cold War (NATO, Warsaw and regional alliances) – Cuban Missile Crisis

UNIT – II: Non-Alignment – The Third World – National Liberation Movements – South Africa – Crisis in Middle East – Arab-Israeli conflict – North-South Divide & Dialogue (NIEO, Brandt Commission Reports 1980 & 1983, Cancun Summit 1981, 2003, South-South Co-operation 1985 & 1988.

UNIT – III: - Gulf Crisis – Afghan Civil War – Question of Disarmament (NPT, CTBT, WMD) – Terrorism – Decline and fall of Soviet Union – End of Cold War ? – Uni-Polar World – New Global Economic Scenario (WTO, GATT, IMF, World Bank)

UNIT – IV:- New Trends –Ecology and Environment – Contemporary Concerns – The Earth Summit at Rio – Gender Issues and Global Concern – Human Rights – Globalization –Liberalization

MAPS: (Locate any 10 centres only)

1. NATO Countries.
2. Communist Bloc.
3. Non-Aligned Countries.

PLACES OF HISTORICAL IMPORTANCE:

(Locate and Mention their Historical importance)

- 1)Bandung 2)Paris 3)Baghdad 4)Tehran 5)Beirut 6)Moscow 7)Kabul 8)Helsinki
9)Berlin 10)Warsaw 11)Havana 12)Delhi 13)Belgrade 14)Camp David 15)Rio
16) Colombo 17)Tel Aviv 18)Cancun 19)Islamabad

Books for study and reference:

1. Agosin M. (Ed.): Women, Gender and Human Rights: A Global Perspective.
2. Symonides J: New Dimensions and Challenges To Human Rights
3. Lobo Nancy: Globalization, Hindu Nationalism and Christians in India.
4. Went R: Globalization.
5. Vyas V.S. (Ed): Poverty Reduction in Developing Countries.
6. Evans T: Politics of Human Rights.
7. Jogdand & Michael: Globalization and Social Movements.
8. Cohen R: Global Social Movements.
9. Jain and Hexamer: Nuclearization in South Asia.
10. S.K.Ray: Refugees and Human Rights.
11. Bimal Chakraborty : The United Nations and The Third World-Shifting Paradigms.
12. Kathleen C.Bailey(Ed): Weapons of Mass Destruction.
13. Partha S. Ghosh : Co-operation and Conflict In South Asia.
14. A.C.Roy: International Affairs since 1919.
15. A.K. Sen: International Relations since 1919.
16. Praksh Chandra,PremArora: Comparative Politics and International Relations.

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SIXTH SEMESTER PAPER –VIII (B)

HISTORY OF WEST ASIA SINCE 1900

UNIT – I: Introduction – European Interest in West Asia – I World War – Peace Settlements - Turkey – Young Turk Movement – Mustafa Kamal Pasha – The Modernization of Turkey – Post War Turkey.

UNIT – II: - Iraq – Rise of Nationalism – Anglo – Iraq Treaty 1930 –Kuwait War and America - Iran – Reza Shah Pahlavi – Economic Reforms – Post War Politics – The Oil Crisis –Pan –Islamism.

UNIT – III: - Arab Nationalism – I World War and Arab Nations –Mandate System –

ದಿನಾಂಕ 20-10-09 ಮತ್ತು 21-10-09ರಂದು ಕನ್ನಡ ಅಧ್ಯಯನ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕರ ಕೊಠಡಿಯಲ್ಲಿ ನಡೆದ ಸ್ನಾತಕ ಕನ್ನಡ ಅಧ್ಯಯನ ಮಂಡಳಿ ಸಭೆಯ ನಡವಳಿಗಳು.

ಸಭೆಗೆ ಹಾಜರಾಗಿದ್ದ ಸದಸ್ಯರು

ಡಾ.ಎಂ.ಸುಮಿತ್ರ	ಅಧ್ಯಕ್ಷರು	ಸಹಿಇದೆ.
ಪ್ರೊ.ಟಿ.ಎಲ್.ವೆಂಕಣ್ಣ	ಸದಸ್ಯರು	—"
ಪ್ರೊ.ಎಸ್.ಬಸವರಾಜು	ಸದಸ್ಯರು	—"
ಡಾ.ರಂಗಾರೆಡ್ಡಿ	ಸದಸ್ಯರು	—"
ಡಾ.ಎಂ.ಗೋವಿಂದಯ್ಯ	ಸದಸ್ಯರು	—"
ಡಾ.ಭುವನೇಶ್ವರ	ಸದಸ್ಯರು	—"
ಪ್ರೊ.ಗಾಯತ್ರಿದೇವಿ	ಸದಸ್ಯರು	—"
ಪ್ರೊ.ಚಂದ್ರಶೇಖರಯ್ಯ	ಸದಸ್ಯರು	—"
ಪ್ರೊ.ಶಿವಲಿಂಗಯ್ಯ	ಸದಸ್ಯರು(ಬಾಹ್ಯ)	—"
ಗೈರುಹಾಜರಾಗಿದ್ದ ಸದಸ್ಯರು		

ಪ್ರೊ.ಎ.ಕೆ.ಹಂಪಣ್ಣ

ನಿರ್ದೇಶಕರು ಸಭೆಯಲ್ಲಿ ಪಾಲ್ಗೊಂಡ ಸದಸ್ಯರನ್ನು ಸ್ವಾಗತಿಸಿದರು. ನಂತರ ಸಭೆಯಲ್ಲಿ ವಿಷಯಗಳನ್ನು ಮುಂದಿಟ್ಟು ಚರ್ಚಿಸಿದರು. ಪದವಿ ಪಠ್ಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ದೀರ್ಘಚರ್ಚೆ ನಡೆದು ಈ ಕೆಳಕಂಡ ತೀರ್ಮಾನಗಳನ್ನು ಕೈಗೊಳ್ಳಲಾಯಿತು.

ಪದವಿ ತರಗತಿಗಳ ಪಠ್ಯಕ್ರಮ ಬದಲಾವಣೆ

ಪದವಿ ತರಗತಿಗಳ ಭಾಷಾಧ್ಯಯನ ಪಠ್ಯಗಳನ್ನು (ಬಿ.ಎ, ಬಿ.ಎಸ್ಸಿ, ಬಿ.ಕಾಂ, ಬಿ.ಬಿ.ಎಂ, ಬಿ.ಹೆಚ್.ಎಂ, ಬಿ.ಸಿ.ಎ) ಪುನರ್ರಚಿಸಲು ತೀರ್ಮಾನಿಸಲಾಯಿತು. ಪಠ್ಯಕ್ರಮದ ಮೂಲಕ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ ಆಸಕ್ತಿಯನ್ನು ಮೂಡಿಸುವ ಸಲುವಾಗಿ ಪಠ್ಯಕ್ರಮದ ಪುನರ್ರಚನೆಗೆ ಮಂಡಳಿಯು ಒಪ್ಪಿಗೆ ನೀಡಿತು. ಪ್ರತಿ ಸೆಮಿಸ್ಟರ್‌ನಲ್ಲೂ ಸಾಹಿತ್ಯದ ವಿವಿಧ ಪ್ರಕಾರಗಳನ್ನು ಪರಿಚಯಿಸಬೇಕೆಂದು ತೀರ್ಮಾನಿಸಿತು. ಐಚ್ಛಿಕ ಕನ್ನಡ ಪತ್ರಿಕೆಯನ್ನು ಆರು ಸೆಮಿಸ್ಟರ್‌ಗಳಲ್ಲೂ ಬದಲಾಯಿಸಲು ಮಂಡಳಿ ಒಪ್ಪಿಗೆ ನೀಡಿತು. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ, ಛಂದಸ್ಸು, ಕಾವ್ಯಮೀಮಾಂಸೆ ಮುಖ್ಯವಾಗಿ ಐಚ್ಛಿಕ ಕನ್ನಡ ಪಠ್ಯದಲ್ಲಿ ಅಳವಡಿಸಬೇಕೆಂದು ಅಭಿಪ್ರಾಯಪಟ್ಟಿತು. ಭಾಷಾ ಪಠ್ಯಗಳು ಮತ್ತು ಐಚ್ಛಿಕ ಪಠ್ಯಗಳನ್ನು ಸಿದ್ಧಮಾಡಲು ನುರಿತ 20 ಜನ ಅಧ್ಯಾಪಕರ ಹೆಸರುಗಳನ್ನು ಮಂಡಳಿ ಅನುಮೋದಿಸಿತು. ಪ್ರತಿಯೊಂದು ಭಾಷಾಪಠ್ಯವು ಭಿನ್ನವಾಗಿರಬೇಕೆಂದು ಅಭಿಪ್ರಾಯ ವ್ಯಕ್ತಪಡಿಸಿತು.

ನುರಿತ ಅಧ್ಯಾಪಕರು :-

- 1) ಪ್ರೊ.ಟಿ.ಎಲ್.ವೆಂಕಣ್ಣ,
- 2) ಪ್ರೊ.ಎಸ್.ಬಸವರಾಜು,
- 3) ಪ್ರೊ.ಚಂದ್ರಶೇಖರಯ್ಯ,
- 4) ಪ್ರೊ.ರಂಗಾರೆಡ್ಡಿ
- ಕೋಡಿರಾಂಪುರ,
- 5) ಪ್ರೊ.ರಾಜೇಶ್ವರಿಗೌಡ,
- 6) ಡಾ.ಮಂಗಳಾಪ್ಪಿಯದರ್ಶಿನಿ,
- 7) ಪ್ರೊ.ಲಕ್ಷ್ಮಿನಾರಾಯಣ,
- 8) ಡಾ.ಕೃಷ್ಣಪ್ಪ,
- 9) ಸುರೇಶ್‌ಪಾಟೀಲ,
- 10) ಪ್ರೊ.ಪ್ರಮೀಳಮಾಧವ್,
- 11) ಪ್ರೊ.ಶ್ರೀನಿವಾಸಮೂರ್ತಿ,

12)ಪ್ರೊ.ಸತ್ಯವತಿ, 13)ಪ್ರೊ.ಲೋಕೇಶ್ವರಪ್ಪ, 14)ಶ್ರೀ.ತ್ಯಾಗರಾಜ, 15)ಪ್ರೊ.ಮುರಳೀಧರ, 16)ಪ್ರೊ.ಸಿ.ಮಹಾದೇವಪ್ಪ, 17)ಪ್ರೊ.ಭುವನೇಶ್ವರ್, 18)ಪ್ರೊ.ಗೋವಿಂದಯ್ಯ, 19)ಪ್ರೊ.ರಾಮೇಗೌಡ, 20)ಪ್ರೊ.ವಿ.ಜಿ.ಪೂಜಾರ್(ಗುಲ್ಬರ್ಗಾ), 21)ಪಿ.ಬಿ.ಶಿವಣ್ಣ

2010ರಿಂದ ಬರುವ ಹೊಸ ಪಠ್ಯಗಳಿಗೆ ಕ್ರಮವಾಗಿ (4 ಸೆಮಿಸ್ಟರ್‌ಗಳು)ಹೊಸ ಶೀರ್ಷಿಕೆ ನೀಡಬೇಕೆಂದು ಮಂಡಳಿ ಸದಸ್ಯರು ಸೂಚಿಸಿದರು. ಭಾಷಾಪಠ್ಯಗಳಿಗೆ ಸಾಹಿತ್ಯ ಸಮನ್ವಯ ಎಂಬ ಶೀರ್ಷಿಕೆ ಕೊಡಬೇಕೆಂದು ಮಂಡಳಿ ಸದಸ್ಯರೆಲ್ಲರೂ ಸರ್ವಾನುಮತದಿಂದ ಒಪ್ಪಿದರು.

ಈ ಪಠ್ಯ ಸಿದ್ಧಗೊಳಿಸಲು ಸಲಹಾಸಮಿತಿ ಮತ್ತು ಪರಿಶೀಲನಾ ಸಮಿತಿಯನ್ನು ರಚಿಸಲಾಯಿತು.

ಪ್ರೊ.ಕೆ.ಜಿ.ನಾಗರಾಜಪ್ಪ ಪ್ರೊ.ಕೆ.ಮರುಳಸಿದ್ದಪ್ಪ

ಪ್ರೊ.ಮಲ್ಲೇಪುರಂ ಜಿ.ವೆಂಕಟೇಶ್ ಪ್ರೊ.ಚಂದ್ರಮೋಹನ್

ಅವರ ಹೆಸರುಗಳನ್ನು ಸಲಹಾಸಮಿತಿಯ ಸದಸ್ಯರಾಗಿ ಒಪ್ಪಲಾಯಿತು.ನುರಿತ ಮಹಿಳೆಯೊಬ್ಬರನ್ನು ಈ ಸಮಿತಿಗೆ ಸೇರಿಸಲು ತೀರ್ಮಾನಿಸಲಾಯಿತು.

ಐಚ್ಛಿಕ ಕನ್ನಡ ಪಠ್ಯಕ್ಕೆ 'ಸಾಹಿತ್ಯ ದರ್ಪಣ' ಶೀರ್ಷಿಕೆ ನೀಡಲಾಯಿತು.

ಭಾಷಾಪಠ್ಯ ಮತ್ತು ಐಚ್ಛಿಕ ಪಠ್ಯಕ್ಕೆ (ಕನ್ನಡ) ಈಗಿರುವ ಪ್ರಶ್ನೆಪತ್ರಿಕೆ ಮಾದರಿಯನ್ನು ಬದಲಾಯಿಸಲು ಮಂಡಳಿ ಒಪ್ಪಿಗೆ ನೀಡಿತು.

ಪದವಿ ತರಗತಿಯ ನಾಲ್ಕು ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೆ ಹಾಗೂ ಐಚ್ಛಿಕ ಕನ್ನಡ (ಬಿ.ಎ.) ಆರು ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೆ ಈ ಕೆಳಕಂಡಂತೆ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ರೂಪಿಸಲಾಯಿತು.

ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎ./ಬಿ.ಎಚ್.ಎಂ/ಬಿ.ಎ. 4 ವರ್ಷಗಳ ಪದವಿ(2010 -		
<i>ಭಾಷಾಪಠ್ಯ ಬೋಧನಾವಧಿ 4 ಗಂಟೆ</i>		ಅಂಕಗಳು - 90
ಕಾವ್ಯ (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ) ಆಯ್ದುಭಾಗಗಳು		30
ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದುಕತೆಗಳು)		20
ವಿಮರ್ಶೆ (ಆಯ್ದುಲೇಖನಗಳು)		20
ನಾಟಕ : ಮೀಡಿಯಾ ಅನು:ಡಾ.ಕೆ.ಮರುಳಸಿದ್ದಪ್ಪ		

ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎ./ಬಿ.ಎಚ್.ಎಂ. /ಬಿ.ಎ. 4 ವರ್ಷಗಳ ಪದವಿ (2010		
<i>ಬೋಧನಾವಧಿ 4 ಗಂಟೆ</i>		ಅಂಕಗಳು - 90
ಆಧುನಿಕ ಕಾವ್ಯ(ನವೋದಯ, ನವ್ಯ)		
ಆಯ್ದುಕವಿತೆಗಳು		30
ಕಾದಂಬರಿ : ಬೆಟ್ಟದಜೀವ : ಶಿವರಾಮಕಾರಂತ		20
ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ (ಆಯ್ದು ಪ್ರಬಂಧಗಳು)		20
ವಿಚಾರ ಸಾಹಿತ್ಯ (ಆಯ್ದು ಲೇಖನಗಳು)		20

ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎ./ಬಿ.ಎಚ್.ಎಂ/ಬಿ.ಎ. 4 ವರ್ಷಗಳ ಪದವಿ.

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ದಲಿತ-ಬಂಡಾಯ, ಮಹಿಳಾಕಾವ್ಯ)

(ಆಯ್ದ ಕವಿತೆಗಳು)

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ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದ ಲೇಖನಗಳು)

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ನಾಟಕ : ಜಲಗಾರ : ಕುವೆಂಪು

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ಪ್ರಬಂಧಗಳು (ಆಯ್ದ ಪ್ರಬಂಧಗಳು)

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ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎ./ಬಿ.ಎಚ್.ಎಂ/ಬಿ.ಎ. 4 ವರ್ಷಗಳ ಪದವಿ

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಶಿಕ್ಷಣವ್ಯ (ಆಯ್ದವಚನಗಳು, ಕೀರ್ತನೆಗಳು, ತತ್ವಪದಗಳು, ಜನಪದಗೀತೆಗಳು)

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ಪ್ರವಾಸ ಸಾಹಿತ್ಯ

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ಜಾನಪದ

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ಅನುವಾದ ಸಾಹಿತ್ಯ

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ಈ ಪಠ್ಯವನ್ನು ಬಿ.ಎ. ನಾಲ್ಕು ವರ್ಷಗಳ ಪದವಿ ತರಗತಿಗೂ (ನಾಲ್ಕು ಸೆಮಿಸ್ಟರ್)

ಅನ್ವಯಿಸಲಾಗಿದೆ. ಈ ಪದವಿಗೆ ಕಾವ್ಯ ಭಾಗಕ್ಕೆ 20 ಅಂಕಗಳು.

ಒಟ್ಟು : 80 ಅಂಕಗಳು

ಬಿ.ಎಸ್ಸಿ. ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯಭಾಗ(ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ)

ಆಯ್ದ ಭಾಗಗಳು

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ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದ ಕತೆಗಳು)

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ವಿಮರ್ಶೆ (ಆಯ್ದ ವಿಮರ್ಶಾ ಲೇಖನಗಳು)

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ಶಿಕ್ಷಣ : ಸಿರಿಸಂಪಿಗೆ : ಚಂದ್ರಶೇಖರ ಕಂಬಾರ

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ಬಿ.ಎಸ್ಸಿ. ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಆಧುನಿಕ ಕಾವ್ಯ (ನವೋದಯ, ನವ್ಯ)

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(ಆಯ್ದ ಕವಿತೆಗಳು)

ಕಾದಂಬರಿ : ಚಿರಸ್ಮರಣೆ : ನಿರಂಜನ

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ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಪ್ರಬಂಧಗಳು)

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ವಿಚಾರಸಾಹಿತ್ಯ (ಆಯ್ದ ವಿಚಾರ ಲೇಖನಗಳು)

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ಬಿ.ಎಸ್ಸಿ. ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ(ದಲಿತ-ಬಂಡಾಯ, ಮಹಿಳಾ ಕಾವ್ಯ) (ಆಯ್ದ ಕವಿತೆಗಳು)	30
ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದ ಲೇಖನಗಳು)	20
ನಾಟಕ (ಅನುವಾದ) ಈಡಿಪಸ್ : ಪಿ.ಲಂಕೇಶ್	20
ಪ್ರಬಂಧಗಳು (ವೈಜ್ಞಾನಿಕ ಆಯ್ದ ಪ್ರಬಂಧಗಳು)	20

ಬಿ.ಎಸ್ಸಿ. ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜಾನಪದ)	30
ಪ್ರವಾಸ ಸಾಹಿತ್ಯ	20
ಜಾನಪದ	20
ಅನುವಾದ ಸಾಹಿತ್ಯ	20

ಬಿ.ಕಾಂ. ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯಭಾಗ (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ) (ಆಯ್ದಭಾಗಗಳು)	30
ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದ ಕತೆಗಳು)	20
ವಿಮರ್ಶೆ (ಆಯ್ದ ಲೇಖನಗಳು)	20
ನಾಟಕ : ಗುಣಮುಖ : ಪಿ.ಲಂಕೇಶ್	20

ಬಿ.ಕಾಂ. ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಆಧುನಿಕ ಕಾವ್ಯ (ನವೋದಯ, ನವ್ಯ) (ಆಯ್ದ ಕವಿತೆಗಳು)	30
ಕಾದಂಬರಿ : ನಿಗೂಢ ಮನುಷ್ಯರು : ಪೂರ್ಣಚಂದ್ರತೇಜಸ್ವಿ	20
ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಪ್ರಬಂಧಗಳು)	20
ವಿಚಾರ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಲೇಖನಗಳು)	20

ಬಿ.ಕಾಂ. ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ದಲಿತ, ಬಂಡಾಯ, ಮಹಿಳಾಕಾವ್ಯ)

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(ಆಯ್ದ ಕವಿತೆಗಳು)

ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದ ಲೇಖನಗಳು)

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ನಾಟಕ : ಅಶ್ವತ್ಥಾಮನ್ : ಬಿ.ಎಂ.ಶ್ರೀ

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ಪ್ರಬಂಧಗಳು (ವೈಜ್ಞಾನಿಕ ಆಯ್ದ ಪ್ರಬಂಧಗಳು)

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ಬಿ.ಕಾಂ. ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜಾನಪದ)

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ಜಾನಪದ

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ಅನುವಾದ ಸಾಹಿತ್ಯ

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ವ್ಯಾವಹಾರಿಕ ಕನ್ನಡ

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ಬಿ.ಬಿ.ಎಂ. ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯಭಾಗ (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ ಸಾಹಿತ್ಯ)

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(ಆಯ್ದ ಭಾಗಗಳು)

ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದ ಕತೆಗಳು)

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ವಿಮರ್ಶೆ (ಆಯ್ದ ವಿಮರ್ಶಾ ಲೇಖನಗಳು)

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ನಾಟಕ : ಟೊಳ್ಳುಗಟ್ಟಿ : ಟಿ.ಪಿ.ಕೈಲಾಸಂ

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ಬಿ.ಬಿ.ಎಂ. ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಆಧುನಿಕ ಕಾವ್ಯ (ನವೋದಯ, ನವ್ಯ)

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(ಆಯ್ದ ಕವಿತೆಗಳು)

ಕಾದಂಬರಿ : ವೈಶಾಖ : ಚದುರಂಗ

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ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ

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ವಿಚಾರ ಸಾಹಿತ್ಯ

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ಬಿ.ಎಸ್. ಕೋರ್ಸ್ (ನಾಲ್ಕು ವರ್ಷ)

ಬಿ.ಎಸ್. ಕೋರ್ಸ್

ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 80

ಕಾವ್ಯ (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ)

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(ಆಯ್ದುಭಾಗಗಳು)

ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದುಕತೆಗಳು)

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ವಿಮರ್ಶೆ (ಆಯ್ದು ಲೇಖನಗಳು)

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ನಾಟಕ : ಕಿಸಾಗೌತಮಿ : ಶಿವರಾಮಕಾರಂತ

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ಬಿ.ಎಸ್. ಕೋರ್ಸ್ ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 80

ಕಾವ್ಯ (ಆಧುನಿಕ)

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(ಆಯ್ದು ಕವಿತೆಗಳು)

ಕಾದಂಬರಿ : ಒಡಲಾಳ : ದೇವನೂರ ಮಹಾದೇವ

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ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ (ಆಯ್ದು ಪ್ರಬಂಧಗಳು)

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ವಿಚಾರ ಸಾಹಿತ್ಯ (ಆಯ್ದು ಲೇಖನಗಳು)

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ಬಿ.ಎಸ್. ಕೋರ್ಸ್ ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 80

ಕಾವ್ಯ (ದಲಿತ- ಬಂಡಾಯ, ಮಹಿಳಾಕಾವ್ಯ)

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(ಆಯ್ದು ಕವಿತೆಗಳು)

ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದು ಲೇಖನಗಳು)

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ನಾಟಕ - ಮಾದಾರಮಾದಯ್ಯ : ಎಚ್.ಎಸ್.ಶಿವಪ್ರಕಾಶ್

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ಪ್ರಬಂಧಗಳು (ಆಯ್ದು ಪ್ರಬಂಧಗಳು)

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ಬಿ.ಎಸ್. ಕೋರ್ಸ್ ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 80

ಕಾವ್ಯ (ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜನಪದಗೀತೆ)

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ಪ್ರವಾಸ ಸಾಹಿತ್ಯ

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ಜಾನಪದ

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ಅನುವಾದ ಸಾಹಿತ್ಯ

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ಬಿ.ಸಿ.ಎ. ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ)

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(ಆಯ್ದ ಭಾಗಗಳು)

ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದ ಕತೆಗಳು)

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ವಿಮರ್ಶೆ (ಆಯ್ದ ವಿಮರ್ಶಾ ಲೇಖನಗಳು)

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ನಾಟಕ : ತಲೆದಂಡ : ಗಿರೀಶ್ ಕಾರ್ನಾಡ್

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ಬಿ.ಸಿ.ಎ. ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಆಧುನಿಕ ಕಾವ್ಯ (ನವೋದಯ, ನವ್ಯ)

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(ಆಯ್ದ ಕವಿತೆಗಳು)

ಕಾದಂಬರಿ : ಚಂದ್ರಗಿರಿಯ ತೀರದಲಿ : ಸಾರಾಅಬೂಬಕ್ಕರ್

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ಪ್ರಬಂಧ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಲೇಖನಗಳು)

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ವಿಚಾರ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಲೇಖನಗಳು)

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ಬಿ.ಸಿ.ಎ. ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ದಲಿತ, ಬಂಡಾಯ, ಮಹಿಳಾಕಾವ್ಯ)

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(ಆಯ್ದ ಕವಿತೆಗಳು)

ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದ)

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ನಾಟಕ : ಟಿಂಗರಬುಡ್ಡಣ್ಣ - ಚಂಪಾ

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ಪ್ರಬಂಧಗಳು (ವೈಜ್ಞಾನಿಕ ಆಯ್ದ ಪ್ರಬಂಧಗಳು)

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ಬಿ.ಸಿ.ಎ. ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ, ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜಾನಪದ

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ಪ್ರವಾಸ ಸಾಹಿತ್ಯ

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ಜಾನಪದ

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ಅನುವಾದ ಸಾಹಿತ್ಯ

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ಬಿ.ಎ.ಐಚ್ಛಿಕ ಕನ್ನಡ

ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಮೊದಲನೆಯ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-1

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ : (ಪ್ರಾಚೀನ ಮತ್ತು ಮಧ್ಯಕಾಲೀನ)

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ಪಂಪ : ಆದಿಪುರಾಣ (ಆಯ್ದಭಾಗ)

ಹರಿಹರ : ಕುಂಬಾರ ಗುಂಡಯ್ಯನ ರಗಳೆ

ರಾಘವಾಂಕ : ಹರಿಶ್ಚಂದ್ರ ಕಾವ್ಯ (ಆಯ್ದಭಾಗ)

ಕುಮಾರವ್ಯಾಸ : ಕರ್ಣಾಟ ಭಾರತ ಕಥಾಮಂಜರಿ (ಆಯ್ದ ಭಾಗ)

ರತ್ನಾಕರವರ್ಣಿ : ಭರತೇಶ ವೈಭವ (ಆಯ್ದಭಾಗ)

ಮುದ್ದಣ್ಣ : ಶ್ರೀರಾಮಶ್ವಮೇಧ (ಆಯ್ದಭಾಗ)

ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ

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ಮಾರ್ಗ-ದೇಸಿ, ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಾಚೀನತೆ

ಚಂಪೂ, ವಚನ, ರಗಳೆ, ಷಟ್ಪದಿ, ಕೀರ್ತನೆ, ತ್ರಿಪದಿ, ಸಾಂಗತ್ಯ

ಜಾನಪದ (ಜನಪದ ಮಹಾಕಾವ್ಯ ಆಯ್ದಭಾಗ)

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ವಿಮರ್ಶೆ (ಆಯ್ದ ಲೇಖನಗಳು)

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಎರಡನೆಯ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-2

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ಆಧುನಿಕ) ನವೋದಯ, ನವ್ಯ

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ನಾಟಕ 'ಮ್ಯಾಕ್‌ಬೆತ್' ಅನು ; ರಾಮಚಂದ್ರದೇವ

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ಆಯ್ದ ಲೇಖನಗಳು

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ಛಂದಸ್ಸಿನ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-3

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ (ದಲಿತ, ಬಂಡಾಯ, ಮಹಿಳಾ)

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ಕಾದಂಬರಿ : ಒಡಲಾಳ : ದೇವನೂರ ಮಹಾದೇವ

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ಕಾವ್ಯವಿಮರ್ಶೆ : ಭಾರತೀಯ ಮತ್ತು ಪಾಶ್ಚಾತ್ಯ

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ಆಯ್ದ ವಚನಗಳು

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ಬಿ.ಬಿ.ಎಂ. ಮೂರನೇ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಕಾವ್ಯ (ದಲಿತ, ಬಂಡಾಯ, ಮಹಿಳಾ ಕಾವ್ಯ)

(ಆಯ್ದು ಕವಿತೆಗಳು)

ವಿಮರ್ಶಾ ಲೇಖನಗಳು (ಆಯ್ದು)

ನಾಟಕ : ಶೇಷಾಂಗ : ಶೇಷಾಂಗ

ಪ್ರಬಂಧಗಳು (ಆಯ್ದು ಪ್ರಬಂಧಗಳು)

ಅಂಕಗಳು - 90

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ಬಿ.ಬಿ.ಎಂ. ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ 4 ಗಂಟೆ

ಕಾವ್ಯ, ವಚನ, ಕೀರ್ತನೆ, ತತ್ವಪದ, ಜಾನಪದ

ಪ್ರವಾಸ ಸಾಹಿತ್ಯ

ಅನುವಾದ ವಿಚಿತ್ರ

ವ್ಯಾಜ್ಞಾನಿಕ ಕೃಷಿ

ಅಂಕಗಳು - 90

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-4

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಆಯ್ದು ಕತೆಗಳು

ಭಾಷಾಶಾಸ್ತ್ರ

ಸಂಸ್ಕೃತಿ ಲೇಖನಗಳು

ನಾಟಕ : ಗೋಕುಲ ನಿರ್ಗಮನ : ಪು.ತಿ.ನ.

ಅಂಕಗಳು - 90

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಐದನೆಯ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-5

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಮಹಿಳಾ ಸಾಹಿತ್ಯ

ಬುಡಕಟ್ಟು ಅಧ್ಯಯನ

ಕಾದಂಬರಿ : ಫಣಿಯಮ್ಮ : ಎಂ.ಕೆ.ಇಂದಿರಾ

ಆಯ್ದು ಪ್ರಬಂಧ ಲೇಖನಗಳು

ಅಂಕಗಳು - 90

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಪತ್ರಿಕೆ-6

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ವಿಮರ್ಶಾ ಲೇಖನಗಳು

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ನಾಟಕ : ಸಂಕ್ರಾಂತಿ : ಪಿ. ಲಂಕೇಶ್

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ವಿಚಾರ ಸಾಹಿತ್ಯ (ಆಯ್ದ ಲೇಖನಗಳು)

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ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂವಹನ ಮಾಧ್ಯಮ

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಸೆಮಿಸ್ಟರ್ ಪತ್ರಿಕೆ-7

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಕಾವ್ಯ

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ಯಶೋಧರ ಚರಿತೆ (ಆಯ್ದಭಾಗ)

ಸಣ್ಣಕತೆಗಳು (ಆಯ್ದ ಕತೆ)

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ಸ್ತ್ರೀ ಸಂವೇದನಾ ಬರಹಗಳು

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ಜನಪದ ಸಾಹಿತ್ಯ

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ಬಿ.ಎ. ಐಚ್ಛಿಕ ಕನ್ನಡ ಪತ್ರಿಕೆ-8

ಬೋಧನಾವಧಿ 5 ಗಂಟೆ

ಅಂಕಗಳು - 90

ಆಯ್ದ ಆಧುನಿಕ ಕವಿತೆಗಳು

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ನವೋದಯ (ನವ್ಯ, ದಲಿತ-ಬಂಡಾಯ, ಮಹಿಳಾಕಾವ್ಯ)

ಸಮಕಾಲೀನ ಕತೆಗಳು

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ವಿಮರ್ಶಾ ಪ್ರಬಂಧಗಳು

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ಆತ್ಮಕತೆ (ಆಯ್ದಭಾಗ)

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ಬಿ.ಎಸ್ಸಿ (FAD) ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವಧಿ - 4ಗಂಟೆ

ಅಂಕಗಳು - 90

ಪಠ್ಯದ ವಿವರ

ಜ್ಞಾನದ ರಾಜಕಾರಣ

ಗುಲಾಮರು

- ಜಿ. ಎಸ್. ಶಿವರುದ್ರಪ್ಪ

ಶುದ್ಧತಪಸ್ವಿ

- ಕುವೆಂಪು

ಕಿರಗೂರಿನ ಗಯ್ಯಾಳಿಗಳು

- ಪೂರ್ಣಚಂದತೇಜಸ್ವಿ

ಸಾವು

- ದುರ್ಯೋಧನನ ವಿಲಾಪ - ರನ್ನ
ಆಟ - ಯಶವಂತ ಚಿತ್ತಾಲ
ಆ ಮನೆಯ ದಾರಿಯಲ್ಲಿ - ಕೀರ್ತಿನಾಥ ಕುರ್ತುಕೋಟಿ

ವಿಜ್ಞಾನದ ತಾತ್ವಿಕತೆ

- ಬೆಸ್ತರ ಕರಿಯ - ಗೊರೂರು ರಾಮಸ್ವಾಮಿ ಅಯ್ಯಂಗಾರ್
ಡಾಂಬರು ಬಂದುದು - ದೇವನೂರ ಮಹಾದೇವ
ವಿಜ್ಞಾನ ಅಧಿಕಾರ ಸಂಸ್ಕೃತಿ - ಆಶೀಶ್‌ನಂದಿ

ಲೈಂಗಿಕತೆ

- ಸೆಲೆ - ವಿ. ಸೀತಾರಾಮಯ್ಯ
ನಿರ್ನೀತಿ - ಕೆ. ಶಿವರಾಮ ಕಾರಂತ
ಪೊಲ್ಲಮೆಯ ಲೇಸು-ನಲ್ಲರ ಮೈಯೋಳ್ - ಜನ್ನ

ಬಿ.ಎಸ್ಸಿ (FA) ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್

ಬೋಧನಾವದಿ - ಳಗಂಟೆ

ಅಂಕಗಳು - ೯೦

ಪಠ್ಯದ ವಿವರ

ಧರ್ಮ, ಜಾತಿ, ಕೋಮುವಾದ

- ಸೌಂದರ್ಯ ಮತ್ತು ಮೈಬಣ್ಣ - ರಾಮಮನೋಹರಲೋಹಿಯಾ
ಮಹಾಡ್ ಕರೆಯ ಪ್ರಸಂಗ - ಡಾ. ಬಿ. ಆರ್. ಅಂಬೇಡ್ಕರ್
ಬಹಿಷ್ಕೃತ - ನರೇಂದ್ರಜಾದವ್

ಆಟ

- ದ್ಯೂತದ ಪ್ರಸಂಗ - ಪಂಪ
ರಾಮರಾವಣರ ಯುದ್ಧ - ಕುವೆಂಪು
ಚದುರಂಗದ ಆಟಗಾರರು - ಪ್ರೇಮಚಂದ್

ವಾಣಿಜ್ಯ ರಾಜಕಾರಣ

- ಬಹುರಾಷ್ಟೀಯ ಕಂಪನಿಗಳು ಮತ್ತು ಪ್ರಸ್ತುತ
ಸವಾಲುಗಳು - ಡಾ. ಬಸವರಾಜಸಬರದ
ಕರೆಬಳಗ ಮತ್ತು ಜಾಗತೀಕರಣ - ಎಸ್. ಜಿ. ಸಿದ್ದರಾಮಯ್ಯ
ಹಣದ ಹುಚ್ಚು - ಡಿ. ಎಚ್. ಲಾರೆನ್ಸ್
(ಅನು) ಬಿ.ಸಿ.ರಾಮಚಂದ್ರಶರ್ಮ

ಜಾಗತೀಕ ಮತ್ತು ಸ್ಥಳೀಯ

- ನಿಶಾವಾಗ್ಗೀಗಳ ನಿತ್ಯ ಸತ್ಯಗಳು - ವಸುಧೇಂದ್ರ
ಮೂಲಿಕೆ ಬಳ್ಳಿಯ ಸುತ್ತ - ಕೆ. ಪಿ. ಪೂರ್ಣಚಂದ್ರತೇಜಸ್ವಿ
ಬೀಜ ಮತ್ತು ಭೂಮಿ - ಡಾ. ವಂದನಾಶಿವ

ಸಭೆಯಲ್ಲಿ ತೆಗೆದುಕೊಂಡ ತೀರ್ಮಾನಗಳು

1. ಈಗಿರುವ ಬಹುಮುಖಿ ಐದು ಮತ್ತು ಬಹುಮುಖಿ ಆರು ಪಠ್ಯಭಾಗಗಳಲ್ಲಿ ಕಾವ್ಯಭಾಗ ಹೆಚ್ಚು ಸೇರ್ಪಡೆಯಾಗಿರುವುದರಿಂದ ನಿಗದಿತ ಅವಧಿಯಲ್ಲಿ ಪಾಠ ಮುಗಿಸಲು ಸಾಧ್ಯವಾಗುವುದಿಲ್ಲ ಎಂಬ ಅಧ್ಯಾಪಕರ ಮನವಿ ಪತ್ರವನ್ನು ಮಂಡಳಿಯು ಚರ್ಚಿಸಿತು. ಬಹುಮುಖಿ 5ರಲ್ಲಿ ಎರಡನೆಯ ಪಠ್ಯಭಾಗ 'ಸ್ವಪ್ನಸಮಾಗಮ' ಮತ್ತು ಪಠ್ಯದ ಪೂರಕಪಠ್ಯಗಳನ್ನೆಲ್ಲ ಕೈ ಬಿಡಬೇಕೆಂದು ಮಂಡಳಿ ತೀರ್ಮಾನಿಸಿತು. ಬಹುಮುಖಿ 6ರಲ್ಲಿ ಎರಡನೆಯ ಪಠ್ಯ 'ಮಕ್ಕಳಭಾಗ್ಯ'ಕ್ಕೆ ಸೇರಿರುವ ಪೂರಕಪಠ್ಯ ಮತ್ತು ಶಾಸನಗಳಲ್ಲಿ ಬನವಾಸಿ ವರ್ಣನೆ ಎಂಬ ಪಠ್ಯಭಾಗವನ್ನು 2010-11ನೇ ಸಾಲಿನಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಕೈಬಿಡಬೇಕೆಂದು ಮಂಡಳಿ ತೀರ್ಮಾನಿಸಿತು.
2. ಸ್ನಾತಕ ಪರೀಕ್ಷಾ ಮಂಡಳಿ ಸಭೆಯಲ್ಲಿ ಪ್ರಶ್ನೆಪತ್ರಿಕೆಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಮತ್ತೆ ವಿ.ವಿ. ನಿಗದಿ ಪಡಿಸಿರುವ ಪತ್ರಿಕೆಯಲ್ಲಿ ಅದನ್ನು ಪುನರ್ ಬರವಣಿಗೆ ಮಾಡುವ ಅಧ್ಯಾಪಕರಿಗೆ ಒಂದುದಿನದ ಭತ್ಯೆ ಮತ್ತು ಆಸನಭತ್ಯೆ ಕೊಡಲು ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಮನವಿ ಮಾಡಲು ತೀರ್ಮಾನಿಸಿತು.
3. ಬಿ.ಕಾಂ. ಮತ್ತು ಬಿ.ಬಿ.ಎಂ. ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಾಹಿತ್ಯಕ್ಕಿಂತ ವ್ಯಾವಹಾರಿಕ ಕನ್ನಡ ಪಠ್ಯಕ್ಕೆ ಹೆಚ್ಚು ಅಂಕ ನಿಗದಿಯಾಗಿರುವುದರಿಂದ ಸಾಹಿತ್ಯ, ಭಾಷೆ, ಸಂಸ್ಕೃತಿಗೆ ಹೆಚ್ಚಿನ ಆದ್ಯತೆ ನೀಡಬೇಕೆಂದು ಮಂಡಳಿ ಸಾಹಿತ್ಯ ಪಠ್ಯಕ್ಕೆ ಅಂಕಗಳನ್ನು ವ್ಯಾವಹಾರಿಕ ಕನ್ನಡಕ್ಕೆ 20 ಅಂಕಗಳನ್ನು ನಿಗದಿಗೊಳಿಸಲಾಗಿದೆ.

The following Syllabus is Prescribed for the Various Under Graduate Courses under Bangalore University, (Semester Scheme) in the Subject Malayalam.

I Year B.A/B.Sc
1st Semester: 2007-2008

1. Poetry: 'KARNAPARVAM'
By EZHUTHACHAN.
Copies available at: Lilly Book center Changanasseery, Kerala.
2. Prose: 'KAAVU THEENDALLE' (essays)
By SUGATHA KUMARI
Copies available at: D.C. Books, Kottayama, Kerala
The following essays to be taught:
1. KAAVU THEENDALLE, KUDIVELLAM MUTTUM.
2. VIKASANAVUM PARISTHITHIYUM.
3. ORU DURANTHATHINTE ORMAKURIPPUKAL.
4. VANARODANAM.
5. ORIKKAL KOODI SILENT VALLEY.
3. Précis Writing: No text Book is Prescribed. A general passage of reasonable length Should be given to e Précised.

2nd Semester 2007-2008

1. Poetry: 'NALINI' By KUMARAASAN.
Lilly Book centre, Changanassery, Kerala.
2. Prose: 'KAAVU THEENDELLE' (essays)
By Sugatha Kumary
D.C. Books, Kottayami, Kerala
The following essays are prescribed:
1. ATTAPPADI DIARY
2. ATTAPPADIYIL KRISHNA VANAM
3. RUPATHI ONNAM NOOTANDINTE VELLUVILIKAL
4. N. Vyum PRAKRUTHI SAMRAKSHANA PRASTHANAVUM
5. KULAPATHIKKU VANDANAM.
3. Translation: No Prescribed text book An English Passage of reasonable length and differently, to be translated into Malayalam.

II Year B.A/B.Sc
3rd Semester 2008-09

1. Poetry: BHOOMIKKORU CHARAMAGEETHAM.
By: O.N.V KURVPU. (collection of poetry)
POORNA PUBLICATION, CALICUT, Kerala

Essays prescribed:

1. BHOOMIKKORU CHARAMA GEETHAM
 2. KOTHAMPU MANIKAL
 3. ORU PURAVRUTHAM
 4. KUNJEDUTHI
 5. KRISHNA PAKSHATHILE PAATTU
2. Prose: 'MANJU' (Novel) By M.T.VASUDEVAN NAIR
3. PARAVARTHAM, use the given words in sentences, and write short notes on the given topics.

4th semester 2008-09

1. Poetry : BHOOMIKKORU CHARAMA GEETHAM
BY O.N.V. KURUPU.

Only the following pieces

1. KATTU.
2. MALAMKURATHI
3. RAAJAVINTE DUKKAM
4. ONAPPATTUKAL.

- 2 Prose: '15 KATHAKAL' (SHORT NOTES)
Compiled by M.V. AKBAR

The following stories :

1. PERUMZHAYUDE PITTENNU
2. KATHUNNA ORU RATHA CHAKRAM
3. SABDIKKUNNA KALAPPA
4. RACHIYAMMA
5. PAAPATHARA

3. General Essay :- An essay many general topic

I Year B.Com
1st Semester - 2007-08

1. Poetry :- 'STHREE PARVAM' By EZHUTHACHAN
Lilly Book Centre
Changanassery, Kerala.
2. Prose :- 'NAALEKKU VENDI ORU NILAVIL' (Essays)
By C.V.Sudheendran
Current Books, Kottayam, Trichur.

The following essays :

1. CHORAPPUZHAKALKKU PINNIL
2. KADINYAM VITHACHU KOYYUNNA NAMMAL
3. ENGLISHINE ASTHANATHU VAAZHICKUMBOL
4. NAALEKKU VENDI ORU NILAVILI

3. Precise writing - 'No text book is prescribed. A general passage of reasonable length should be given to be précised.

2nd Semester - 2007 - 08

1. Poetry : 'CHANDALA BHIKSHUKI '
By Kumaranasan
Prabhath Book House,
Kozhikode, Kerala
2. Prose :- 'NAALEKKU VENDI ORU NILAVILI (Essays)
By C.V. Sudheendran

1. STHREE - PURUSHANTE PRATHI RODHAVVUM PRATHYAKRA
2. STHREE YIL NINNUYE RENDA PRATHIRODAM
3. CHORAYIL PANIYUNNADO KSHATHRAM
4. MUTHALALITHAMO MUKTHI MARGAM

3. Translation :

II Year B.Com
3rd Semester --2008-09

1. Poetry : 'NAVATHALAM' (Collection of poetry)
Editor : M.N.KARASSERY
Copies available at P.K.Brothers
Kozhikode, Kerala

The following pieces to be taught :

1. PANDATHE MESANTHI
 2. UPPU
 3. VAZHI VETTUNNAVARODU
 4. JOSE JOSE PHINTE MARANAM
2. Prose :- 'KAPPIRIKALUDE NAATTIL' (Travlogue)
By S.K. Pottekkadu
 3. Commercial letter writing, sentence correction

4th Semester - 2008 -- 09

1. Poetry : 'NAVATHALAM'
Editor : M.N.Karassety.

The following poems :

1. RAATHRI MAZHA
 2. KOZHI
 3. MEGHA ROOPAN
 4. KOCHIYILE VRUKSHANGAL
2. Prose :- 'ORU SAMKEERTHANAM POLE' (Novel)
By Perumpadavam Sreedharan
 3. Commercial correspondence, general essay

I Year BBM /BHM
1st Semester – 2007 – 08

1. 'BODHIVRU KSHATHINTE ELAKAL' (Essays)
By P.N. Das
Current Books, Trichur, Kerala.

Selected Essays :

1. EE MAHAVRUKSHANGAL BHOOMIYUDE PRARTHANAKAL
 2. CHANDRANU NERE CHOONDUNNA VIRAL
 3. YADARTHYATHILEKKU ORU VATHIL
 4. KEERAPPUTHAPPUM POORNA CHANDRANUM
 5. DAIVATHINTE ODAKKUZHAI
 6. HARITHA JAGARANA
 7. TEACHER NALKUNNA TICKET
 8. VEDANAYUM VAIDYAVUM
 9. ORU VEEDENNAL
 10. AMARTHYA DAYUDE POOVU
2. General essay, expansion of the idea, use the words and idioms and phrases in sentences, sentence correction.

2nd Semester 2007 – 08

1. 'GAATTUM KAANA CHARADUKALUM' (collection of essays)
By M.P. Veerendra Kumar
Copies : MATHRUBHUMI Printing and publishing
company Ltd., Calicut, Kerala
2. Commercial correspondence, précis writing, general essay (preferably on commercial, industrial, economic or allied topics)

For each semester, the total mark is 100, of which 90 marks for theory questions and 10 marks for internal assessment. This internal assessment may be class test, record work, assignments, seminars etc.,

Model question paper B.A/Bsc./B.Com

I. Annotation (answer four out of six)

4x5=20

(Annotation can be given from poetry & prose)

1.
2.
3.
4.
5.
6.

II. Short answers

a) Answer two out of three
Questions from poetry.

2x8=16

1.
2.

b) Short answers (Two out of three)
Questions from prose.

2x8=16

1.
2.

III. Essay (one out of two)
Question from poetry

1x15=15

1.
2.

IV Essay (one out of two)
Question from prose.

1x15=15

1.
2.

V. Linguistic item.

Précis writing

8

90

Model Question paper for BBM /BHM

I. Short answer . (Four out of Five)

4 x 6 = 24

1.
2.
3.
4.
5.
6.

II. Essay (Three our of five)

3 x 12 = 36

(For I Semester BBM/BHM)

III. General Essay (One out of Two)

1 x 15 = 15

1.
2.

IV. Expansion of the idea (one out of two)

1 x 6 = 6

1.
2.

V. a) Use the words and phrases in sentence (Five out of six)

5 x 1 = 5

1.
2.
3.
4.
5.
6.

b) Sentence correction (four out of five)

4 x 1 = 4

1.
2.
3.
4.
5.

For II Semester BBM / BHM

III. General Essay (One out of two)

1 x 15 = 15

1.
2.

IV. Commercial Correspondence
(Letter writing) (One out of Two)

1 x 8 = 8

1.
2.

V. a Précis writing

7

90

2276-BOP-100 FEB-2007

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Proceedings of the Board of Studies meetings in Tamil and Malayalam held on 16th December 2006 at Seminar Hall, Bangalore University Campus, Dr.Ambedkar veeedhi, Bangalore-560 001.

Members Present on 16th December 2006.

1. Dr. T.S. MALLIGA. Chairperson.
2. Dr. A. Sankari.
3. Prof. R.A. Thangam Raja.
4. Prof. P.V. Kochu Baby. (Malayalam)
5. Dr. R. Srinivasan. (Spl.invitee)
6. Dr. A. Sudhakar.
7. S. Sivakami.
8. Dr. K. Nachimuthu. (External Member.)

The following resolutions are passed in the B.O.S. meeting in Tamil & Malayalam.

As the B.O.S. has finalized Syllabi for Tamil and Malayalam, it is resolved to submit it to the Bangalore University to be placed before the next Academic Council Meeting.

The name list of Text Books and Pattern of Question Papers in Tamil for the Various Under Graduate Courses under the Semester Scheme from the Academic Year 2007-2008 onwards for a period of Three Years.

BANGALORE UNIVERSITY
DEPARTMENT OF TAMIL B.A. / B.Sc.
FIRST SEMESTER.

1. **POETRY** : TAMIL PAACHCHARAM - I
(1) PURANAANUURU.
(2) THIRUKKURAL.
(3) CILAPPATIKAARAM.

2. **SHORT STORIES** :

BANGALORE CIRUKATAIGAL. -
KAAVYA PUBLICATION: 16, II Cross Street,
Trustpuram, Kodambakkam, Chennai-600 024. Price Rs.50/-

3. **PAYANPAATTU TAMIL.**

PATTERN OF QUESTION PAPER FIRST SEMSTER B.A.,/ B.Sc.,

TIME : 3 HOURS

MAX. MARKS- 90

1. **POETRY :**

1. Puranaanuru:

Main Question:

10 Marks.

Annotation.

5 Marks.

2. Thirukkural.

Main Question.

10 Marks.

Annotation.

5 Marks.

3. Cilappatikaaram.

Main Question.

10 Marks.

Annotation.

5 Marks.

Ilakkanakurippu.

5 Marks.

Ilakkia chirappu.

5 Marks.

2. **SHORT STORIES.**

Main Question.

20 Marks.

3. **PAYANPAATTU TAMIL**

15 Marks

4. **INTERNAL ASSESSMENT.**

10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

B.A. / B.Sc., ---- SECOND SEMESTER.

1. **POETRY;** TAMIL PAACHCHARAM -- I
 1. AKANAANUURU
 2. TIRUVAACAKAM
 3. TEEMBAAVANI
2. **PROSE;** ILAKKIA ALAIGAL. --- Dr.R.Srinivasan
KAAVYA PUBLICATION. 16, II Cross Street,
Trustpuram, Kodambakkam, Chennai-600 024. Price Rs.50/-
3. **TAMIL ILAKKANAM.**

PATTERN OF QUESTION PAPER.
SECOND SEMSTER

TIME: 3 HOURS.

MAX.MARKS- 90.

1. POETRY:	
1. Akanaamuuru.	
Main Question:	10 Marks.
Annotation.	5 Marks.
2. Thiruvaacakam	
Main Question.	10 Marks.
Annotation.	5 Marks.
3. Teembaavani.	
Main Question.	10 Marks.
Annotation.	5 Marks.
Ilakkia chirappu.	5 Marks.
2. PROSE :	
Main Question.	20 Marks.
3. TAMIL ILAKKANAM	20 Marks.
4. INTERNAL ASSESSMENT	10 Marks.

Total:	100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance, Class Test and Assignments.

B.A. / B.Sc., -- THIRD SEMESTER.

1. **POETRY:** TAMIL PAACHCHARAM – II
 1. PERIYA PURAANAM.
 2. KALINGATTUPPARANI.
 3. TARKAALAKKAVITAIKAL.
2. **PROSE** ILAKKIYA NERI - Dr.Nirmala Mohan.
Arasi pathippakam, Arivagam, 78/1 Alwarnagar,
Nagamalai, Madurai - 625019. Rs.50/-
3. **LETTER WRITING**

PATTERN OF QUESTION PAPER

THIRD SEMSTER

TIME : 3 HOURS

MAX.MARKS - 90

1. **POETRY :**
 1. Periyapuraanam.
Main Question: 10 Marks.
Annotation. 5 Marks.
 2. Kalingattupparani.
Main Question. 10 Marks.
Annotation. 5. Marks.
 3. Tarkkalakavitaikal.
Main Question. 10 Marks.
Annotation. 5. Marks.
Ilakkanakkurippu. 5. Marks
Ilakkia chirappu. 5. Marks.
2. **PROSE**
Main Question. 20 Marks.
3. **LETTER WRITING.** 15 Marks
4. **INTERNAL ASSESSMENT.** 10 Marks.

Total: 100 Marks.

Note : Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

B.A. / B.Sc., -- FOURTH SEMESTER.

1. **POETRY**: TAMIL PAACHCHARAM – II
 1. KAMBA RAMAYANAM.
 2. NAALAAAYIRA DIVYA PRABANDAM.
 3. NATTUPURAPAADALGAL.
2. **BIOGRAPHY** ARIVIYAL ARINAR ABDUL KALAM.
---NELLAI .S. MUTHU.,
Manivasakar Nuulagam, Paari Munai, Chennai- 600 108. Rs.30/-
3. **TRANSLATION**. (English to Tamil.)

PATTERN OF QUESTION PAPER.

FOURTH SEMSTER

TIME; 3 HOURS.

MAX.MARKS- 90

1. POETRY;
 1. Kamba Ramayanam.
Main Question: 10 Marks.
Annotation. 5 Marks.
 2. Naalaayaira Divya Prabandam.
Main Question. 10 Marks.
Annotation. 5. Marks.
 3. Naatu pura Paadalgal..
Main Question. 10 Marks.
Annotation. 5. Marks.
Ilakkanakkurippu. 5. Marks.
Ilakkia chirappu. 5. Marks.
2. BIOGRAPHY.
Main Question. 20 Marks.
3. TRANSLATION 15 Marks
4. INTERNAL ASSESSMENT. 10 Marks.

Total : 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

FIRST SEMESTER.

1. **POETRY**; TAMIL PAACHCHARAM – I

1. AKANAANUURU.
2. THIRUKKURAL.
3. TIRUVAACAKAM..

2. **PROSE**;

TAMIZHIL VIDUTHALAI ILAKKIYAM. – Dr.K. CHELLAPAN.

Inetrnational Institute of Tamil Research, Taramani, Chennai-600 0113.. Rs.20/-

3. **PAYANPAATTU TAMIL.**

PATTERN OF QUESTION PAPER.

FIRST SEMSTER

TIME: 3 HOURS.

MAX.MARKS- 90

1. **POETRY:**

1. Akanaanuuru:

Main Question:

10 Marks.

Annotation.

5 Marks.

2. Thirukkural.

Main Question.

10 Marks.

Annotation.

5. Marks.

3. Tiruvaacakam..

Main Question.

10 Marks.

Annotation.

5. Marks.

Ilakkanakurippu.

5. Marks.

Ilakkia chirappu.

5. Marks.

2. **PROSE.**

Main Question.

20 Marks.

3. **PAYANPAATTU TAMIL**

15 Marks

4. **INTERNAL ASSESSMENT.**

10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
-Class Test and Assignments.

SECOND SEMESTER.

1. **POETRY;** TAMIL PAACHCHARAM – I
1. PURANAANUURU.
2. CILAPPATIKAARAM..
3. TEEMBAAVANI..

SHORT STORIES;

VARAM . – SUNDARA PANDIAN
KAAVYA PUBLICATION. 16, II Cross Street,
Trustpuram, Kodambakkam, Chennai-600 024. Price Rs.40

3. **TAMIL ILAKKANAM.**

PATTERN OF QUESTION PAPER.

SECOND SEMSTER

TIME : 3 HOURS

MAX.MARKS- 90

1. POETRY;	
1. Puranaanuuru:	
Main Question:	10 Marks.
Annotation.	5 Marks.
2. Cilapptikaaram.	
Main Question.	10 Marks.
Annotation.	5. Marks.
3. Teembaavani..	
Main Question.	10 Marks.
Annotation.	5. Marks.
Ilakkanakkurippu.	5. Marks.
Ilakkia chirappu.	5. Marks.
2. SHORT STORIES.	
Main Question.	20 Marks.
3. TAMIL ILAKKANAM.	15 Marks
4. INTERNAL ASSESSMENT.	10 Marks.

Total:	100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

THIRD SEMESTER.

1. **POETRY** : TAMIL PAACHCHARAM – I I.
 1. NAALAAAYIRA DIVYA PRABANDAM.
 2. KALINGATTUPPARANI.
2. **PROSE** : TIRUKKURAL KAATTUM NIRVAAKA IYAL.
--- VAANIKA IYAL. --- M.RAVINDRAN.
(NIRVAAKA IYAL) – pp.1 to 144.
Vaanathi Pathippakam.- Chennai – 600 017.
3. **LETTER WRITING**
4. **TRANSALTION**. (English to Tamil).

PATTERN OF QUESTION PAPER

THIRD SEMSTER

TIME : 3 HOURS

MAX. MARKS - 90

- | | |
|---------------------------------|-----------|
| 1. POETRY: | |
| 1. Naalaayira Divya Prabandam.. | |
| Main Question: | 10 Marks. |
| Annotation. | 5 Marks. |
| 2. Kalingattupparani. | |
| Main Question. | 10 Marks. |
| Annotation. | 5 Marks. |
| 2. PROSE | |
| Nirvaaka iyal. | |
| Main Question. (2 X 15) | 30 Marks. |
| 3. LETTER WRITING. | 15 Marks |
| 4. TRANSLATION . | 15 Marks. |
| 5. INTERNAL ASSESSMENT. | 10 Marks. |

Total : 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance, Class Test and Assignments.

B.Com. – FOURTH SEMESTER.

1. **POETRY :** TAMIL PAACHCHARAM – II
 1. NATTUPURAPAADALGAL.
 2. TARKAALAKKEAVITAIKAL.
2. **PROSE** TIRUKKURAL KAATTUM NIRVAKA IYAL.
-- VAANIKA IYAL.---- M.RAVINDRAN.
(VAANIKA IYAL) – pp.145 to 246.
Vaanathi Pathippakam.- Chennai – 600 017.
3. **GENERAL ESSAY**
4. **FILE PREPARATION**

PATTERN OF QUESTION PAPER

FOURTH SEMSTER

TIME : 3 HOURS

MAX. MARKS - 90

1. **POETRY:**
 1. Naatu pura Paadalgal..
Main Question. 10 Marks.
Annotation. 5 Marks.
 2. Tarkaalakkavitaikal.
Main Question. 10 Marks.
Annotation. 5 Marks.
 2. **PROSE**
Vaanika Iyal.
Main Question.(2 X 15) 30 Marks.
 3. **GENERAL ESSAY.** 15 Marks.
 4. **FILE PREPARATION.** 15 Marks.
 5. **INTERNAL ASSESSMENT.** 10 Marks.
- Total: 100 Marks.**

Note: Internal Assessment Marks will be given based on the Attendance, Class Test and Assignments.

B.B.M. --- FIRST SEMESTER.

1. POETRY : TAMIL PAACHCHARAM - I

1. CILAPPATIKAARAM.
2. TIRUVAACAKAM.

2. SHORT STORIES :

VATTATHTHAI MIIRI - SOLAI SUNDARAPERUMAL.
KAAVYA PUBLICATION. 16, II Crdss Street,
Trustpūram, Kodambakkam, Chennai-600 024. Price Rs.40

3. BUSINESS CORRESPONDENCE

- Letter Writing.
- General Essay.
- Comprehension.

PATTERN OF QUESTION PAPER

FIRST SEMESTER

TIME : 3 HOURS

MAX. MARKS - 90

1. POETRY :

1. Cilappatikaaram. Or Tiruvaacakam.

Main Question:

15 Marks.

Annotation.

5 Marks.

2. SHORT STORIES.

Main Question.

20 Marks.

3. BUSINESS CORRESPONDENCE

Letter Writing.

15 Marks.

General Essay.

15 Marks.

Comprehension.

20 Marks.

4. INTERNAL ASSESSMENT.

10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

B.B.M. --- SECOND SEMESTER

1. **POETRY;** TAMIL PAACHCHARAM - I

1. TIRUKKURAL.
2. MANIMEKALAI.

2. **PROSE**

ITHAZIYAL -- Dr.K.RAJA.
TAMARAI PUBLICATION LTD., AMBATTUR,
CHENNAI - 98. Rs.40/=

3. **BUSINESS TAMIL:**

File Preparation.
Transalation.(English to Tamil)

ATTERN OF QUESTION PAPER.

SECOND SEMSTER

TIME : 3 HOURS

MAX.MARKS- 90

1. POETRY;

1. TIRUKKURAL Or MANIMEKALAI

Main Question: 15 Marks.

Annotation. 5 Marks.

2. PROSE.

Main Question.

No. of questions. 2 x 20 40 Marks.

3. BUSINESS TAMIL

File Preparation. 15 Marks.

Translation. 15 Marks.

4. INTERNAL ASSESSMENT.

10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

OPTIONAL TAMIL
FIRST SEMESTER B.A. OPTIONAL (TAMIL). PAPER – I

GRAMMAR :

- Nannuul - 1. Ezhuth thiyal.
2 Pathaviyal.

HISTROY AND CULTURE

Tamizhaga Varalaaru makkalum panpaadum -
-----Dr. K.K.Pillai. Chapters 1 to 5.
Published by International Institute of Tamil Research,
Tharamani, Chennai -- 600 113. Rs.125/=

NOVEL ; Poytteevu --- K.N.SUBRAMANIAM.
KAAVYA PUBLICATION, 16, II Cross Street,
Trustpuram, Kodambakkam, Chennai-600 024. Price Rs.100/=

PATTERN OF QUESTION PAPER

FIRST SEMSTER

TIME : 3 HOURS

MAX.MARKS - 90

Nannuul - 1. Ezhuth thiyal.	20 Marks.
2 Pathaviyal	20 Marks.
Tamizhaga Varalaaru makkalum panpaadum	30 Marks.
NOVEL : Poytteevu	20 Marks.
<u>INTERNAL ASSESSMENT.</u>	10 Marks.

Total : **100 Marks.**

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

SECOND SEMESTER B.A. OPTIONAL (TAMIL) PAPER – II

GRAMMAR :

- Nannuul - 1. Peyariyal.
2. Vinaiyiyal.

HISTROY AND CULTURE

Tamizhaga Varalaaru makkalum panpaadum -
-----Dr. K.K. Pillai. Chapters 6 to 10.
Published by International Institute of Tamil Research,
Tharamani, Chennai – 600 113. Rs.125/=

DRAMA : PALI AADUGAL. ----- Dr.K.A.GUNASEKARAN.
KAAVYA PUBLICATION, 16, II Cross Street,
Trustpura, Kodambakkam, Chennai-600 024. Price Rs.50/=

PATTERN OF QUESTION PAPER

SECOND SEMSTER

TIME : 3 HOURS

MAX. MARKS- 90

Nannuul - 1. Peyariyal.	20 Marks.
2. Vinaiyiyal	20 Marks.
Tamizhaga Varalaaru makkalum panpaadum	30 Marks.
Drama ; Pali Aadugal.	20 Marks.
<u>INTERNAL ASSESSMENT.</u>	10 Marks.
Total:	100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

THIRD SEMESTER B.A. OPTIONAL (TAMIL PAPER – III)

GRAMMAR :

Yaapparunkalak kaarikai

HISTROY AND CULTURE.

Tamizhaga Varalaaru makkalum panpaadum -

----- Dr. K.K. Pillai. Chapters 11 to 15

Published by International Institute of Tamil Research,
Tharamani, Chennai – 600 113. Rs.125/=

POETRY; Azhagin cirippu. ----- Bharathidasan.

PATTERN OF QUESTION PAPER

SECOND

TIME : 3 HOURS

MAX. MARKS - 90

Yaapparunkalak kaarikai 40 Marks.

Tamizhaga Varalaaru
makkalum panpaadum 30 Marks.

Azhagin cirippu 20 Marks.

INTERNAL ASSESSMENT. 10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

FOURTH SEMESTER B.A. OPTIONAL (TAMIL) PAPER – IV

GRAMMAR :

Tandiyalankaaram.

HISTROY AND CULTURE :

Tamizhaga Varalaaru makkalum panpaadum -

-----Dr. K.K.Pillai. Chapters 16 to 20.

Published by International Institute of Tamil Research,
Tharamani, Chennai – 600 113. Rs.125/=

POETRY ; Cilappatikaaram. – Puranceeriyuttakaatai.

PATTERN OF QUESTION PAPER
SECOND SEMSTER

TIME: 3 HOURS

MAX. MARKS- 90

Tandiyalankaaram.	40 Marks.
Tamizhaga Varalaaru makkalum panpaadum	30 Marks.
Poetry.	20 Marks.
INTERNAL ASSESSMENT.	10 Marks.
Total:	100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

FIFTH SEMESTER B.A. OPTIONAL (TAMIL). PAPER – V

GRAMMAR :

Tolkaappiyam. ----- Akaththinaiyiyal

POETRY : Akanaanuuru. ----- 10 Poems.
Mullaippaattu.

History of Language

Mozhiyin thooramum Valarcciyum.

PATTERN OF QUESTION PAPER
FIFTH SEMSTER

TIME : 3 HOURS

MAX. MARKS- 90

Tolkaappiyam. 30 Marks.

Akaththinaiyiyal

Akanaanuuru. 20 Marks.

Mullaippaattu 20 Marks.

Mozhiyin thooramum
Valarcciyum. 20 Marks.

INTERNAL ASSESSMENT. 10 Marks.

Total: 100. Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

FIFTH SEMESTER B.A. OPTIONAL (TAMIL). PAPER - VI

GRAMMAR :

Tolkaappiyam. ----- Puraththinaiyiyal

POETRY : Puranaanuuru. ----- 10 Poems.

History of Language

Dravida Mozhi Oppilakkanam - Dr. Coldwell.

PATTERN OF QUESTION PAPER.

FIFTH SEMSTER

TIME : 3 HOURS

MAX. MARKS- 90

Tolkaappiyam. 30 Marks.
Puraththinaiyiyal

Puranaanuuru. 20 Marks.

Dravida Mozhi Oppilakkanam 40 Marks.

INTERNAL ASSESSMENT: 10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance, Class Test and Assignments.

SIXTH SEMESTER B.A. OPTIONAL (TAMIL) PAPER – VII

POETRY : TIRUKKURAL. -----6 Chapters.
Aram --2, Porul ---2 Inbam ---2

FOLKLORE. Naattuppuraviyal

LITERARY CRITICISM. (Ilakkiyattiranaayvu)

PATTERN OF QUESTION PAPER
SIXTH SEMSTER

TIME : 3 HOURS

MAX. MARKS- 90

TIRUKKURAL.. 30 Marks.

Naattuppuraviyal. 30 Marks.

Ilakkiyattitanaayu. 30 Marks.

INTERNAL ASSESSMENT. 10 Marks.

Total: 100 Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

SIXTH SEMESTER B.A. OPTIONAL (TAMIL) PAPER – VIII

JOURNALISM

ETHAZIYAL. --- Dr. ESWARAN

PATTERN OF QUESTION PAPER
SIXTH SEMSTER

TIME : 3 HOURS

MAX. MARKS - 90

Ethaziyal

6 Questions 6 x 15.

90. Marks.

INTERNAL ASSESSMENT.

10 Marks.

Total :

100. Marks.

Note: Internal Assessment Marks will be given based on the Attendance,
Class Test and Assignments.

2275.B.U.P-100 - FEB-2007

2208-BUP-150-Jan. 2007

**PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES IN URDU
(U.G.) HELD ON 23-11-2006 AT 11 A.M. AT THE DEPARTMENT OF URDU
JNANA BHARTHI CAMPUS, BANGALORE**

Members present :

- | | | |
|--|-------------|------|
| 1. Dr. Mahnoor Zamani Begum
Reader & Chairperson, Dept. of Urdu, BUB | Chairperson | Sd/- |
| 2. Dr. Mohd. Sibgathulla
Head, Dept. of Urdu, GFC Boys College, Kolar | Member | Sd/- |
| 3. Mrs. Hashmathunnisa
Head, Dept. of Urdu, Rural College, Kanakapura | Member | Sd/- |
| 4. Mrs. Nusrath Jahan
Dept. of Urdu, Maharani's College, Mysore - 570006 | Member | Sd/- |
| 5. Mr. Zakir Hussain
Al-Ameen FGC for Arts, Science & Commerce | Member | Sd/- |

The meeting began at with the with the welcome note of the Chairperson. The Board discussed the reintroduction of the separate syllabus by the University and after considering it from all points of view the Board resolved to prepare and prescribe separate syllabi for different degree courses.

The Board then ventured to prepare 3 different syllabi, one for B.Sc. degree course, one for B.A. degree course and another for B.Com./BBM/ BHM etc.

The Board has as such prepared two syllabi for 2 books (Tilismath-e-Adab for I & II semesters and Nawishta-e-Adab for III & IV semesters) for the B.Sc.Degree course along with one non-detailed Text Book for each year, with effect from 2007- 08.

The Board has also prepared two syllabi for 2 books (Saaz-e-Adab for I & II semesters and Shihaab-e-Adab III & IV Semesters) for the B.A. degree course along with one non-detailed Text book for each year, with effect from 2007-28.

The Board also prepared and prescribed the syllabus for a book, Mizrab-e-Adab, for I& II semesters B.Com./BBM./BHM. It also prepared and prescribed the syllabus for a book, Naqeeb-e-Adab, for B.Com. /BBM./BHM II & IV Semesters along with one no- detailed Text book for each year, with effect from 2007-08.

The Board resolved to continue with the same books for the Persian and Arabic Languages which were already approved by the University in 2006 and are followed from 2006-2007.

At the end of the meeting the Chairperson thanked the members of the Board and concluded the meeting..

Sd/-

Dr. Mahnoor Zamani Begum
Chairperson, Dept. of Urdu
Bangalore University, Bangalore

DEPARTMENT OF URDU
URDU SYLLABUS FOR UNDERGRADUATE COURSES- SEMESTER SCHEME WITH
EFFECT FROM THE ACADEMIC YEAR 2007-2008
(AS APPROVED BY THE BOARD OF STUDIES IN URDU ON 23-11-2006)

FIRST SEMESTER B.A. DEGREE COURSE

PAPER 1.1 - LANGUAGE URDU

Book prescribed : 1- **SAAZ -E-ADAB**
Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|---------------------------------------|-----------------------|
| 1. Doo Byil | - Premechand |
| 2. Samajh | - Sir Syed Ahmed Khan |
| 3. Lafzoan ki anokhi auniya | - Syed Hamid Hussain |
| 4. Mohsinul Mulk | - Moulvi Abdul Haq |
| 5. Apne watan mein sub kuch hai pyare | - Kanhiya Lal Kapoor |
| 6. Kuch ahwal Tokyo ka | - Ibne Insha |

Poetry: (a) : Nazmein :

- | | |
|--------------------------------|----------------------|
| 1. Hamd | - Sayeed Rahmani |
| 2. Hajav Dar Khana-e- Khood | - Meer Taqi Meer |
| 3. Kaljug | - Nazeer Akbar Abadi |
| 4. Aqal - o - Dil | - Allama Iqbal |
| 5. Muraqqa-e-Ibrat | - Chakbast |
| 6. Nisar mein teri galyoan key | - Faiz Ahmed Faiz |

Poetry: (b) : Ghazlein:

- | | |
|--|------------------------------|
| 1. Khoob roo khoob kaam kartey... | - Wali Aurang Aabadi |
| 2. Yaad karna har ghadi oos Yaar... | - Wali Aurang Aabadi |
| 3. Arz-o- samaa kahan teri usaat ko | - Khwaja Meer Dard |
| 4. Joan noore nazar tera tasawwur | - Khwaja Meer Dard |
| 5. Koochaye dilbar mein mayen,... | - Khwaja Hyder Ali Aatish |
| 6. Dahan par hain unke guman | - Khwaja Hyder Ali Aatish |
| 7. Buth ko buth aur khuda ko | - Nawab Mirza Khan Daagh |
| 8. In aankhoan ney kiya kiya | - Nawab Mirza Khan Daagh |
| 9. Dil hi toa hai na sange khisht | - Mirza Asadulla Khan Ghalib |
| 10. Ibne maryam howa karey koi... | - Mirza Asadulla Khan Ghalib |

- | | |
|---|--------------------|
| Grammar: 1. Ism aur uski qismein | - Moulvi Abdul Haq |
| 2. zameer aur uski qismein | - Moulvi Abdul Haq |

Book prescribed : 2 (Non Detail Text)
Ibarat Kaisey likhein (Page 11 To Page 66) - Rasheed Hassan Khan

SECOND SEMESTER B.A. DEGREE COURSE
PAPER 2.1 - LANGUAGE URDU

Book prescribed : 1- SAAZ -E-ADAB
Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose:

- | | |
|-----------------------|--------------------------------|
| 1. Moosa | - Jeelani Banoo |
| 2. Kamiyaab Zindagi | - Syed Sabahuddin Abdur Rehman |
| 3. Maghroor Jootha | - Abdul Haleemm Sharar |
| 4. Imtehan Gah | - Nazeer Siddiqi |
| 5. Ghalib ke khutooth | - Mirza Asadulla Khan Ghalib |
| 6. Rustum-o-Sohraab | - Aagha Hashar Kashmiri |

Poetry: (a) : Nazmein :

- | | |
|--------------------------------|-------------------------|
| 1. Madeehe sarware kaonain ... | - Akbar Alahabadi |
| 2. Jang ka manzar (Marsiya) | - Meer Babbar Ali Anees |
| 3. wadiye ganga mein yek raath | - Akhtar Shirani |
| 4. Eak Nazam | - Meeraji |
| 5. Shab Chiragh | - Mehmood Aiyaz |
| 6. Gehwaraye Tamaddun | - Abdus Sattaar Dalvi |

Poetry: (b) : Ghazlein:

- | | |
|---------------------------------------|-----------------------------|
| 1. Naam badnaam hai nahaq ... | - Faani Badayuni |
| 2. Har ghadi inqalab mein guzri .. | - Fani badayuni |
| 3. kisi bekas ko aiye bedaadgar ... | - Shaikh Mohd. Ibrahim Zaoq |
| 4. kiya gharz laakh khudayi mein ... | - Shaikh Mohd. Ibrahim Zaoq |
| 5. Khaksaari kar keh raoshan us | - Bahadur Shah Zafar |
| 6. Maye wahdat ki hum ko masti | - Bahadur Shah Zafar |
| 7. Hai mashqe sukhan jari chakki | - Hasrath Mohani |
| 8. Tuhj sey girwida yek zamana | - Hasrath Mohani |
| 9. Yek lafz muhabbat ka adna yeh... | - Jigar Muraad Aabadi |
| 10. Juhale Khirad ney din yeh | - Jigar Muraad Aabadi |

Grammar: -

- | | |
|---------------------------|--------------------|
| 1. Feil aur uski qismein | - Moulvi Abdul Haq |
| 2. Sifat aur uski qismein | - Moulvi Abdul Haq |

Book : 2 (Non Detail Text)

Ibarat Kaisey likhein
(Page 67 To Page 129)

- Rasheed Hassan Khan

THIRD SEMESTER B.A. DEGREE COURSE

PAPER : 3.1 - LANGUAGE URDU

Book prescribed : 1-SHIHAAB-E-ADAB

Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|-----------------------------|------------------------------|
| 1. kahani | - Moinuddin Jenabade |
| 2. Moulana Mohd. Ali Jauhar | - Rasheed Ahmed Siddiqi |
| 3. Achcha Ustad | - Dr Zakir Hussain |
| 4. Hamare Mushayere | - Muzaffar Hanfi |
| 5. problem | - Shaukath Thanvi |
| 6. talmihath | - Moulana Waheeduddin Saleem |

Poetry: (a) : Nazmein :

- | | |
|--|------------------------------|
| 1. Sultan Shaheed | - Seemab Akbar Aabadi |
| 2. Jeetna tajulmuluk ka dilbar
baesw ko aur chod kar rawana ... | - Pandit Daya Shankar Naseem |
| 3. Shaoor | - Baqar Mehdi |
| 4. Shikaste Zindan ka khawab | - Joosh Maleel Aabadi |
| 5. Ittehad | - Jan Nisar akhtar |
| 6. Yeh zameen-o-aasman | - Muneebur Rehman |

Poetry: (b) : Ghazlein:

- | | |
|---------------------------------------|-----------------------|
| 1. Meer darya hai suney zabani ... | - Meer Taqi Meer |
| 2. Faqiraana aaye sada kar chaley | - Meer Taqi Meer |
| 3. Fasurda pakey muhabbat ko ... | - Firaq Gorakhpoori |
| 4. Ab daur-e-aasman hai na daur-e ... | - Firaq Gorakhpoori |
| 5. Taqdeer ka shikwa bemani ... | - Majrooh Sultanpoori |
| 6. Jab hooa irfan to gham aarame ... | - Majrooh Sultanpoori |
| 7. Khataye bisyaar hoan saza dey | - Bani |
| 8. Dekhiye kiya kiya sitam moasam. | - Bani |
| 9. woh hamein rah mein mil jayein. | - Zahida Zaidi |
| 10. Buye gul raqs mein hai, bade ... | - Zahida Zaidi |

Grammar:

- | | |
|---|--------------------|
| 1. Zamana – Mazi, Haal, Mustaqbil aur unki tafseelath | - Moulvi Abdul Haq |
| 2. Harfe Jaar aur uski qismein | - Moulvi Abdul Haq |

Book prescribed : 2 (Non Detail Text)

Aaj ka Urdu Adab _ Dr Abul Lais Siddiqi

(First Half of the Book)

FOURTH SEMESTER B.A. DEGREE COURSE
PAPER 4.1 - LANGUAGE URDU

Book prescribed : 1-SHIHAAB-E-ADAB

Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose

- | | |
|---|------------------------|
| 1. Andesha | - Salaam Bin Razzaq |
| 2. Mamoon ka Fazlo kamala | - Allama Shibl Naumani |
| 3. Khandaane Mughliya ka zawaalo tanazzul | - Mushtaq Ahmed Yusufi |
| 4. Khursheedul Islaam | - Mujtabah Hussain |
| 5. Khawab Baqi Hain(Extract) | - Ale Ahmed Suroor |
| 6. Hikayathey Zagh-o-bulbul | - Abul Kalam Azad |

Poetry: (a) : Nazmein :

- | | |
|------------------------|-------------------------|
| 1. Iqbal | - Maqdoom Mohiuddin |
| 2. Ajnabi | - Ghulaam Jeelani Azgar |
| 3. Gaoowaley | - Ehsaan Danish |
| 4. Hawa ki pushth par | - Hameed Almas |
| 5. Aaye Shareef Insano | - Sahar Ludhyanvi |
| 6. Tajdeed | - Akhtarul Eemaan |

Poetry: (b) : Ghazlein:

- | | |
|--|---------------------|
| 1. Tho Aabhi rahguzar mein hai ... | - Allama Iqbal |
| 2. Phir chiraghey lala sey raoshan .. | - Allama Iqbal |
| 3. Tanhai ka dukh gehra tha | - Nasir Kazmi |
| 4. Naye dees ka rang naya tha | - Nasir Kazmi |
| 5. Yeh duniya ranj-o-rahmat ka | - Shahar Yaar |
| 6. Bahtey Daryaoan mein pani ki | - Shahar Yaar |
| 7. Safar Imrooz ka hai ham farad.... | - Muzaffar Hanfi |
| 8. sun kar hamarey shair kabhi to | - Muzaffar Hanfi |
| 9. Chaman mein they to chaman hi.. | - Moin Ahasan Jazbi |
| 10. Fazae shab mein sitarey hazaar,, | - Moin Ahasan Jazbi |

Grammar:

- | | |
|--------------------------------|--------------------|
| 1. Harfe rabt aur uski qismein | - Moulvi Abdul Haq |
| 2. Muhawirey aur Zarbulmsaal | - Moulvi Abdul Haq |

Book prescribed : 2 (Non Detail Text)

Aaj ka Urdu Adab _ Dr Abul Lais Siddiqi
(Second Half of the Book)

Sd/-

23-11-2006

Chairperson, BOS(UG)

FIRST SEMESTER B.Sc. DEGREE COURSE

PAPER 1.1 - LANGUAGE URDU

Book prescribed : 1- **TILSIMATH-E-ADAB**

Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|---|--|
| 1. Yahi meera watan hai | - Premechand |
| 2. Surabe Hayaath | - Sir syed Ahmed Khan |
| 3. Khane Khana Rasheed Hassan Khan | - Yusuf Nazim |
| 4. Tawanayi Bohraan ka hal, Nayi khoosh hali ki taraf rehnumayi | - Mark Ginns Berg
(extract from Span) |
| 5. Stem Khulyoan ka krishma | - Rayees Ahmed (Transl.) |
| 6. Moulana Aazad aur mulk mein Science ki taraqqi | - Wahaab Qaiser |

Poetry: (a) : Nazmein :

- | | |
|--|-------------------------|
| 1. Aye Khuda Teri yeh kayinath Hassein | - Zahida Zaidi |
| 2. Hajv dar aspe Laghar | - Miza Sauda |
| 3. Sehrul Bayaan (Extract) | - Mir Hassan |
| 4. Jalwaye Subah | - Birj Narayan Chakbast |
| 5. Nazre Aligarh | - Israrul Haq Majaz |
| 6. Daghe Jigar bechta hoan | - Joosh Maleeh Aabadi |

Poetry: (b) : Ghazlein:

- | | |
|--|-----------------------|
| 1. Raast bazoan mein khudnumayi... | - Siraj Aurang Aabadi |
| 2. Aalam key doastoan mein ... | - Siraj Aurang Aabadi |
| 3. Moasam hai nikley shakhoan se... | - Meer Taqi Meer |
| 4. Jis sar koo ghoroor aaj hai yaan.. | - Meer Taqi Meer |
| 5. Dekhna har taraf na majlis mein | - Altaf Hussain Hali |
| 6. Itni hi dushwaar apney aib ki... | - Altaf Hussain Hali |
| 7. Basher ko kiyoon naho darpeesh | - Bahadur Shah Zafar |
| 8. Na darweshoan ka khirqe chahiye ... | - Bahadur Shah Zafar |
| 9. Shikwa samajh na kamnigahi ka | - Fani Badayuni |
| 10. Har ghadi inqalaab mein guzri | - Fani Badayuni |

Grammar:

- | | |
|----------------------------|--------------------|
| 1. Ism aur uski qismein | - Moulvi Abdul Haq |
| 2. zameer aur uski qismein | -Moulvi Abdul Haq |

Book -2 : (Non detailed):

- | | |
|---|--------------------|
| 1. Science ki kahaniyan (Hissae Awwal) | - Aneesuddin Malik |
|---|--------------------|

SECOND SEMESTER B.Sc. DEGREE COURSE
PAPER 2.1 - LANGUAGE URDU

Book prescribed : 1- TILSIMATH-E-ADAB

Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose:

- | | |
|--|-----------------------|
| 1. Jugnoan ki duniya | - Qurathul Ain Hyder |
| 2. Eak hindustani deputy Collector
ki apney afsar sey mulaqth | - Moulvi Nazeer Ahmed |
| 3. Achchi kitab ka muthlaa | - Moulvi Abdul Haq |
| 4. Qalayi tehqiqaat- Eak jayeza | - Urdu Duniya |
| 5. Sciency Mizaaj | - Khalid Irfan |
| 6. Kashish-e-Saqal kiya hai | - Urdu Duniya |

Poetry: (a) : Nazmein :

- | | |
|---------------------------------------|-------------------------|
| 1. Aap sey Roashan hai Bazme kayinath | - Iftqar Ajmal Shaheen |
| 2. Jang ka eak manzar | - Meer Babbar Ali Anees |
| 3. Tandrust Nama | - Nazeer Akbar Aabadi |
| 4. LooH-o-Qalam | - Faiz Ahmed Faiz |
| 5. Zindagi | - Allama Iqbal |
| 6. Holi | - Arsh Mulsiyani |

Poetry: (b) : Ghazlein:

- | | |
|---|-------------------------------|
| 1. kahan sibaat ka us ko khiyaal hoota hai | - Akbar Allah Aabadi |
| 2. Range Sharaab sey meri niyat badal ... | - Akbar Allah Aabadi |
| 3. Mayin kiya karoan bla sey jo... | - Nawab Mirza Khan Daagh |
| 4. Dunya mein aadmi ko musibath... | - Nawab Mirza Khan Daagh |
| 5. koyi ummeed bar nahin aati , ... | - Mirza Asadullah khan Ghalib |
| 6. yeh na thi hamari qismat ko... | - Mirza Asadullah khan Ghalib |
| 7. Meri aankhein band hain aur chashme... | - Azgar Goondavi |
| 8. Raqse masti dekhtey jooshe tamanna... | - Azgar Goondavi |
| 9. Tuluye Subh hai nazrein uttha key ... | - Jan Nisar akhtar |
| 10. Zindagi tujh ko bhulaya hai bahut din.. | - Jan Nisar akhtar |

Grammar: -

- | | |
|---------------------------|--------------------|
| 1. Feil aur uski qismein | - Moulvi Abdul Haq |
| 2. Sifat aur uski qismein | - Moulvi Abdul Haq |

Book : 2 (Non Detail Text):

- | | |
|--|--------------------|
| 1. Science ki kahaniyan (Hissae Duvvam) | - Aneesuddin Malik |
|--|--------------------|

THIRD SEMESTER B.Sc. DEGREE COURSE

PAPER : 3.1 - LANGUAGE URDU

Book prescribed : 1. NAWISHTA -E-ADAB

Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|-----------------------------|------------------------------|
| 1. Khawab aur taqdeer | - Intezaar Hussain |
| 2. Yaldaram ki yaad mein | - Rasheed Ahmed Siddiqi |
| 3. Magarmach ke boot | - Javeed Iqbal |
| 4. Laser Shuayein kiya hain | - Khalid Irfan |
| 5. Power point ka taruf | - Ameet Jain & Samrat Sharma |
| 6. Garm Hooti Duniya | - Mahender Pandey |

Poetry: (a) : Nazmein :

- | | |
|--|------------------|
| 1. Kiya Sharf Aap ney aye faqre Risalath Paya - Ameer Meenai | |
| 2. Sindbaad Ki Wapasi | - Meeraji |
| 3. Khawahish | - Akhtarul Imaan |
| 4. Lamhaye Fikriya | - Ehsaan Danish |
| 5. Deevangi rahey baqi | - Nida Fazli |
| 6. Sitarey | - N.M.Rashid |

Poetry: (b) : Ghazlein:

- | | |
|--|--------------------|
| 1. Yis duniya ke kooch tukrhoan mein | - Ibne Insha |
| 2. Janey to kiya Dhoond raha hai basti ... | - Ibne Insha |
| 3. Chaman mein Aawo Zara saere | - Moin Ahsan Jazbi |
| 4. Ham eak dil ki agar sharah par utar ... | - Moin Ahsan Jazbi |
| 5. Sharaare sang ki koohsaar sey baghawat.. | - Baqar Mehdi |
| 6. Sahra mein rehney waley bhi Aabi | - Baqar Mehdi |
| 7. Dil mein khshboo si utar jati hai, ... | - Bani |
| 8. who baat baat pe ji bhar key boolney ... | - Bani |
| 9. Rasta bhi kathin dhoop mein shiddat bhi.. | - Parveen Shakir |
| 10. Tujh sey to koi gila nahin | - Parveen Shakir |

Grammar:

- | | |
|--|--------------------|
| 1. Zamana – Mazi, Haal, Mustaqbil aur unki tafseelath - Moulvi Abdul Haq | |
| 2. Harfe Jaar aur uski qismein . | - Moulvi Abdul Haq |

Book prescribed : 2 (Non Detail Text)

Eijadaat ki kahani - Ziauddin Alvi

FOURTH SEMESTER B.Sc. DEGREE COURSE

PAPER : 4.1 - LANGUAGE URDU

Book prescribed : 1. NAWISHTA -E-ADAB
Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose:

1. Sirf eak Aana - Krishan chander
2. Ghalib key khutooth - Mirza Asadulla Khan Ghalib
3. Japan chalo, Japan Chalo(Extract) - Mujtaba Hussain
4. Chand , Baaz naye haqaiq - Mutarjim: Rais Ahmed
5. Tipu sultan ki Yijadaat-o-Iqtraat - Dr.Mohd.Sibghatulla
6. Yaad rakhna aur bhoolna - Mutarjim: Rizwan Ahmed Khan

Poetry: (a) : Nazmein :

1. Lamhoan ki Sada - Maqmoor sayeedi
2. Khushi to yeh hai - Rashid Aazar
3. Eak mohrey ka safar - Javeed aKhtar
4. Jhoot - Dilawar figaar
5. Farmaan-e-Iblees - Majeed Lahori
6. Insaan azeem hai khudaya - Ahmed Nadeem Qasmi

Poetry: (b) : Ghazlein:

1. Phir harifey bahaar haar baithe - Faiz Ahmed Faiz
2. Dono Jahan teri Muhabbat - Faiz Ahmed Faiz
3. Dunya qadam key sath hai, - Saqi Farooqi
4. Umar bhar sabath key naam sey - Saqi Farooqi
5. yeh shar shar ki Aabadiyaan - Mehmood Ayaz
6. Ab na doori ki shikayat hai na... - Mehmood Ayaz
7. Baise wahshate Junoon kahtey - Shahar Yaar
8. Ley dey kit hi mataae jan to ney - Shahar Yaar
9. Guzar raha hai idhar sey to - Joosh Maleeh Aabadi
10. na ja ney raat ko kiya maikadey - Joosh Maleeh Aabadi

Grammar:

1. Harfe rabt aur uski qismein - Moulvi Abdul Haq
2. Muhawirey aur Zarbulmsaal - Moulvi Abdul Haq

Book prescribed : 2 (Non Detail Text)
Pardaye Ghaflath - Saleha Aabid Hussain

Sd/-

23-11-2006

Chairperson, BOS(UG)

FIRST SEMESTER B.Com. DEGREE COURSE

PAPER 1.1 - LANGUAGE URDU

Book prescribed : 1- **MIZRAB-E-ADAB**

Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|----------------------------------|-----------------------|
| 1. praishcheet | - Premchand |
| 2. Sir Syed ka bachpan | - Altaf Hussain Hali |
| 3. Khuddari ya Izzathe Nafs | - Syed Sulaiman Nadvi |
| 4. Daulate khana | - Yusuf Nazim |
| 5. Khangi Karobaar | - Mirza Sugheer Ahmed |
| 6. Daftar aur daftari intezamiya | - Dr. Bashambar sahai |

Poetry: (a) : Nazmein :

- | | |
|----------------------------------|-----------------------|
| 1. Hamd | - Akbar Allahabadi |
| 2. Aadmi Nama | - Joosh Maleeh Aabadi |
| 3. Ajanta | - Sikandar Ali wajad |
| 4. Madare watan | - Suroor Jahan Aabadi |
| 5. Badre Muneer ki Halathe Hijr | - Meer Hassan |
| 6. Shama har rang mein jalti hai | - Mehmood Ayaz |

Poetry: (b) : Ghazlein:

- | | |
|-----------------------------------|----------------------------|
| 1. Haqeeqat mein hai masiwa | - Nawab Mirza Daagh |
| 2. Zamana butoan par fida ho raha | - Nawab Mirza Daagh |
| 3. Tere dard sey jis ko nisbath | - Hasrath Mohani |
| 4. Hai kisey khidmathe Islam ki | - Hasrath Mohani |
| 5. Nakami ki badaulath koochaye | - Fani Badayuni |
| 6. Shikwa samajh na kam nigahi | - Fani Badayuni |
| 7. Mah mein kahan jo tab rukh | - Shaik Mohd. Ibrahim Zaoq |
| 8. Keeda zara sa aur who pathar | - Shaik Mohd. Ibrahim Zaoq |
| 9. Behsein chirhi hoi hain hyaath | - Firaq Goorakhpuri |
| 10. Zindagi dard ki kahani hai | - Firaq Goorakhpuri |

- Grammar:** 1. Ism aur uski qismein
2. zameer aur uski qismein

- Moulvi Abdul Haq
-Moulvi Abdul Haq

Translation Passages 4

Book prescribed : 2 (Non Detail Text)

Karobari Khath-o-kitabath

(Chapter 1-8)

- Khaleel Ibn-e-Maqdoom

SECOND SEMESTER B.Com. DEGREE COURSE
PAPER 2.1 - LANGUAGE URDU

Book prescribed : 1- **MIZRAB -E-ADAB**
Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose:

- | | |
|--------------------------------------|------------------------|
| 1. Hawai Qiley | -Krishan Chander |
| 2. Riya | - Sir Syed Ahmed Khan |
| 3. Mitya birij key halath | - Abdul Haleem Sharar |
| 4. Daftar ka waqoo, tarteeb-o-tauzeh | - Dr. Bashambhar sahai |
| 5. Daftar ke mamoolath (Extracts) | - Dr. Bashambhar sahai |
| 6. Karoobar ki dakhili tanzeem | - Mirza Sagheer Ahmed |

Poetry: (a) : Nazmein :

- | | |
|----------------------------|------------------------|
| 1. Sahra ki Duaa | - Hafeez Jalandhari |
| 2. Asifuddaula ka imambada | - Birj naeain Chakbast |
| 3. Political Speachyen | - Hali |
| 4. Tauheed | - Nazeer Akbar Aabadi |
| 5. Nigaroan ka dayes | - Arsh Mulsiani |
| 6. Itehaad (Extract) | - Jan Nisar Akhtar |

Poetry: (b) : Ghazlein:

- | | |
|--|----------------------------|
| 1. Gul ko mehboob ham ney qiyas kiya | - Meer Taqi Meer |
| 2. Ham hoey tum hoey ke meer hoey | - Meer Taqi Meer |
| 3. Wahshatey dil ney kiya hai who ... | - Mhawaja Hyder Ali Aatish |
| 4. Hussaney Pari eak jalwaye mastana.. | - Mhawaja Hyder Ali Aatish |
| 5. Bazechaye itfal hai duniya merey | - Miza Ghalib |
| 6. Ghar jab bana liya terey dar par | - Mirza Ghalib |
| 7. Thoo Abhi rahguzar mein hai qaidey... | - Allama Iqbal |
| 8. Aqal go aastan dey door nahin.... | - Allama Iqbal |
| 9. Aadmi nashaye ghaflat mein bhula | - Jigar Murad Aabadi |
| 10. yeh falak yeh maho anjum yeh | - Jigar Murad Aabadi |

Grammar: -

- | | |
|---------------------------|--------------------|
| 1. Feil aur uski qismein | - Moulvi Abdul Haq |
| 2. Sifat aur uski qismein | - Moulvi Abdul Haq |
- Translation Passages 4

Book : 2 (Non Detail Text)

Karobarī Khath-o-kitabath - Khaleel Ibn-e-Maqdoom
(Chapter 9-16)

THIRD SEMESTER B.Com. DEGREE COURSE
PAPER 3.1 - LANGUAGE URDU

Book prescribed : 1- **NAQEEB -E-ADAB**
Edited by : Board of Studies (U.G), BUB, 2006

PART - I

Prose:

- | | |
|----------------------|-------------------------|
| 1. Duaa | - Syed Mohd. Ashraf |
| 2. Ibne Insha | - Ahmed Nadeem qasmi |
| 3. Ustad ki talash | - Mirza Farhatulla Baig |
| 4. Door-o-Paas | - Shameem Hanfi |
| 5. Zar-o-bankari | - Mirza Sagheer Ahmed |
| 6. Tijaarate kharija | - Mirza Sagheer Ahmed |

Poetry: (a) : Nazmein :

- | | |
|--|----------------------------|
| 1. Ya Mustafa | - Qazi Saleem |
| 2. Garmi ka maosam | - Ismail Meerathi |
| 3. Ali Azgar ki jurjhat mein maa ki betabi | - Mirza Salamat Ali Dabeer |
| 4. Silsilaye Rooz-o-Shab | - Meeraji |
| 5. Eak partau | - Akhtarul Iman |
| 6. Muskurahatein | - N.M.Rashid |

Poetry: (b) : Ghazlein:

- | | |
|--|---------------------------|
| 1. Maqdoor nahin us ki tajalli key | - Mirza Mohd. Rafee Sauda |
| 2. Gada dastey Ahaley karam dekhtey... | - Mirza Mohd. Rafee Sauda |
| 3. Sitam ki rasmein bahut thein laykin.. | - Faiz Ahmed Faiz |
| 4. Kuch Mohtasiboan ki qilwat mein... | - Faiz Ahmed Faiz |
| 5. Meri rodaad Tulani bahut hai | - Mazhar Imam |
| 6. Abhi tak nauw jo Doobi nahin hai ... | - Mazhar Imam |
| 7. Dhoop thi aur badal chaya tha | - Nasir Kazmi |
| 8. Tanhayi ka dukh gahra tha | - Nasir Kazmi |
| 9. Waqt ki bath hai ya shomiye.... | - Ale Ahmed Suroor |
| 10. Har eak jannat key rastey ho ... | - Ale Ahmed Suroor |

Grammar:

- | | |
|---|--------------------|
| 1. Zamana – Mazi, Haal, Mustaqbil aur unki tafseelath | - Moulvi Abdul Haq |
| 2. Harfe Jaar aur uski qismein | - Moulvi Abdul Haq |
- Translation Passages 4

Book prescribed : 2 (Non Detail Text)

Ibarath kaisey Likhein - Rasheed Hassan Khan(Page 11 to 66)

FOURTH SEMESTER B.Com. DEGREE COURSE

PAPER : 4.1 - LANGUAGE URDU

Book prescribed : 1. NAQEEB -E-ADAB

Edited by : Board of Studies (U.G), BUB, 2006

PART - II

Prose:

- | | |
|------------------------------------|-------------------------|
| 1. Ghoonsla | - Shoukat Hyaath |
| 2. Koi deewar si giri hai | - Mushtaq Ahmed Yusufi |
| 3. Khandaan | - Rasheed Ahmed Siddiqi |
| 4. Secretary aur oos key Mamoolath | - Dr. Bashambhar Sahai |
| 5. Bank | - Mirza Sugheer Ahmed |
| 6. Beema | - Mirza Sagheer Ahmed |

Poetry: (a) : Nazmein :

- | | |
|-----------------------------------|---------------------|
| 1. Mother Theresa | - Javeed Akhtar |
| 2. Deewangi Rahey Baqi | - Nida Fazli |
| 3. Anees thays na lag jaye | - Abdul Ahad Saaz |
| 4. who jo karawan sey bichad gaye | - Mohd. Rafi Ansari |
| 5. Qiyamat | - Muneebur Rehman |
| 6. Waqt | - Shaharyar |

Poetry: (b) : Ghazlein:

- | | |
|--|------------------|
| 1. Husn mein bhi hain ishq key andaaz | - Ehsan Danish |
| 2. Yis shobida-e-zaar-e-Aalam mein | - Ehsan Danish |
| 3. Ghar hai tho dar bhi hoga deewar ... | - Hameed Almas |
| 4. Jab kabhi lambey safar sey laot kar,... | - Hameed Almas |
| 5. Laboan pey muskurahtein saja raha ... | - Qateel Shifayi |
| 6. Parbath parbat Ghoom chukka hoan... | - Qateel Shifayi |
| 7. Meri nawaoan ki talkhiyoan mein ... | - Zahada Zaida |
| 8. yeh kis nagar mein Aagaey yeh | - Zahida Zaidi |
| 9. Sab ko yaqeen hai ham sa koi nahin | - Azeez Qaisi |
| 10. Aah beasar nikli naala narasa paya | - Azeez Qaisi |

Grammar:

- | | |
|--------------------------------|--------------------|
| 1. Harfe rabt aur uski qismein | - Moulvi Abdul Haq |
| 2. Muhawirey aur ZarbulImsaal | - Moulvi Abdul Haq |
- Translation Passages 4

Book prescribed : 2 (Non Detail Text)

Ibarat Kaisey likhein

(Page 67 To Page 129)

- Rasheed Hassan Khan

Sd/-

23-11-2006

Chairperson, BOS(UG)

3. HUMAN RESOURCE GROUP

H.R 5.6 EMPLOYEE WELFARE & SOCIAL SECURITY

OBJECTIVE

The objective is to enable students to acquire skills in Labor Welfare & Social Security.

Unit 1: SOCIAL & LABOUR WELFARE

12 Hrs.

Social Welfare; Labour Welfare: Concept, Scope; Philosophy and Principles of Labour Welfare; Indian constitution and Labour Welfare; Labour Welfare Policy and Five Year Plans, Historical Development of Labour Welfare in India;

Unit 2: INDIAN LABOUR ORGANIZATION

12 Hrs.

Impact of I.L.O on Labour Welfare in India; Agencies of Labour Welfare and their Roles, Labour Welfare Programmes: Statutory and Non-Statutory, Extra Mural and Intra Mural. Welfare Centers; Welfare Officer: Role, Status and Functions.

Unit 3: SOCIAL SECURITY

12 Hrs.

Concept and Scope; Social Assistance and Social Insurance, Development of Social Security in India; Social Security measures for Industrial Employees.

Unit 4: LABOUR ADMINISTRATION – 1

12 Hrs.

Evolution of Machinery for Labour Administration; Central Labour Administrative Machinery in India, Labour Administration in India.

Unit 5: LABOUR ADMINISTRATION – 2

12 Hrs.

Director General of Employment and Training; Director General of Factory Advice Service; Provident Fund Organization; ESI Schemes; Central Board for workers' Education;

SKILL DEVELOPMENT :

- Preparation of a list of statutory welfare measures by visiting industry
- Preparation of a list of voluntary welfare measures by visiting industry
- Preparation of list of social securities measures by visiting industry

BOOKS FOR REFERENCE

1. Moorthy, M.V. Principles of Labour Welfare, Oxford & IBH Publishing Co., New Delhi.
2. Vaid, K.N. Labour Welfare in India, Sree Ram Centre for Industrial Relations and Human Resources, New Delhi.

3. Sharma, A.M. Aspects of Labour Welfare and Social Security, Himalaya Publishing, House, Mumbai.
4. Ram Chandra P. Singh, Labour Welfare Administration in India, Deep & Deep Pub., New Delhi.
5. Punekar, S.D. Deodhar S.B., Sankaran, Saraswathi, Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Mumbai.
6. Pant, S.C., Indian Labour Problems, Chaitanya Publishing House, Allahabad.
7. Saxena, R.C., Labour Problems and Social Welfare, K. Nath & Co., Meerut.
8. Bhogiliwala, T.N. Economics of Labour & Industrial Relations, Sahitya Bhavan Publishing Agra.
9. Memoria, C.B. Dynamics of Industrial Relations in India, Himalaya Publishing. House, Mumbai.

H.R. 5.7 STRATEGIC HRM

OBJECTIVE

The objective is to enable students to acquire skills in Strategic Human Resource Management.

Unit 1: INTRODUCTION TO STRATEGIC HRM

12 Hrs.

Strategic Role of HRM, Planning and Implementing Strategic HR policies, HR Strategies to increase firm performance.

Unit 2: INVESTMENT PERSPECTIVES OF HR

12 Hrs.

Investment Consideration, Investments in Training and Development, Investment Practices for improved Retention, Job secure work forces, Nontraditional Investment Approaches.

Unit 3: MANAGING STRATEGIC ORGANIZATION

12 Hrs.

Managing Strategic Organizational Renewal- Managing change and OD, instituting TQM Programmes, Creating Team based Organizations, HR and BPR, Flexible work arrangement.

Unit 4: ESTABLISHING STRATEGIC PLANS

12 Hrs.

Establishing Strategic pay plans, Determining periods, Establishing periods, Pricing Managerial and professional jobs, Compensation trends, Objectives of International Compensation, Approaches to International Compensation, Issues related to double taxation. Cases.

Unit 5: GLOBAL HRM

12 Hrs.

Managing Global Human Resources-HR and the internationalization of business, Improving international assignments through selections, Training and maintaining international employees, Developing International Staff and Multinational Teams - Multinational, Global, and Transnational Strategies - Strategic Alliances, Sustainable Global Competitive Advantage, Globally Competent Managers, Location of Production Facilities.

SKILL DEVELOPMENT:

- Prepare a statement showing man power requirements in an imaginary situation.
- Specimen of a payroll with imaginary roles.
- Preparation of job card with imaginary facts.
- Preparation of questionnaire on performance appraisal

BOOKS FOR REFERENCES

1. Gary Dessler, Human Resource Management, PHI, New Delhi, 2003.
2. Charles R. Greer, Strategic Human Resource Management, Pearson Education, 2003.
3. Luis R. Gomez-Mejia, David B. Balkin, Robert L. Cardy, Managing Human Resources, PHI,
4. Peter J. Dowling, Denise E. Welch, Randall S. Schuler, International Human Resource Management, Thomson South-Western, 2002.

H.R 6.5 ORGNISATIONAL CHANGE AND DEVELOPMENT

OBJECTIVE:

The objective is to enable the students to understand need for Organizational Change and Development

Unit 1: CHANGE MANAGEMENT

10Hrs

The importance and nature of change. Change and human response. Introducing change effectively: Basic steps, factors influencing change- resistance to change, over coming resistance to change

Unit 2: ORGANIZATION EFFECTIVENESS

10Hrs

Organization effectiveness: Concept, problems in measurement of effectiveness. System - level criteria of judging effectiveness.

Unit 3: ORGANIZATIONAL DEVELOPMENT

20Hrs

The nature of Organizational Development: Assumptions and values. Relevant systems concepts. Action research, OD.. Interventions: Team interventions, inter-group interventions, personal, interpersonal and group processes interventions: A descriptive inventory of OD interventions.

Unit 4: OD INTERVENTIONS

10Hrs

Comprehensive interventions, Structural interventions, Job enrichment and MBO, Conditions for optimal success of OD.

Unit 5: CREATIVITY & INNOVATION

10Hrs

Creativity & Innovation: meaning, need, components of creativity & innovation, Organizational constraints, Organizational environment for Creativity & Innovation,

KILL DEVELOPMENT

List out the recent OD interventions in Organisations.

Discuss case studies on Impact of change on Organisational effectiveness.

BOOKS FOR REFERENCE

Dunnette, M.D. (Ed.) (1976). Handbook of Industrial and Organizational Psychology. Chicago: Rand McNally.

French, W.L.; & Bell, C.H. Jr. (1980). Organizational Development. London: Prentice Hall.

3. Herbe
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5. Lutha
6. Margi
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7. McGi
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8. Pareel
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9. Rudra
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10. Sharm
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3. Herbert, T.T. (1981). Dimensions of Organizational Behavior. London: MacMillan.
4. Khandwalla, P.N. (1988). Organizational effectiveness. In J. Pandey (Ed.) Psychology in India: The State-of-the Art (Vol.3, pp. 97-215). New Delhi: Sage.
5. Luthans, F. (1989). Organizational Behaviour. London: McGraw Hill.
6. Margulies, N.; & Raia, A.P. (1975). Organizational Development: Values, process and technology. New Delhi: Tata McGraw Hill,
7. McGill, M.E. (1977). Organizational Development for Operating Managers. AMACO (a division of American Management Association).
8. Pareek, U. & Rao, T.V. (1986). Designing and Managing Human Resources Systems. New Delhi: Oxford.
9. Rudrabasavaraj, M.N. (1977). Executive Development in India. New Delhi: Himalaya Publishing House.
10. Sharma, R.A. (1982). Organizational Theory and Behaviour. New Delhi: Tata McGraw Hill,

6.6 COMPENSATION MANAGEMENT

OBJECTIVE:

The objective is to enable the students to understand the various aspects of Compensation Management

UNIT-1: JOB EVALUATION AND PERFORMANCE APPRAISAL 10 Hrs
Job Evaluation - Definition - Traditional and New Techniques - Performance Appraisal -basic concepts - performance standard - Appraisal methods.

UNIT-2: COMPENSATION MANAGEMENT 10 Hrs
Compensation - Definition - classification - types - incentives - fringe benefits.

UNIT-3: WAGE AND SALARY ADMINISTRATION 20Hrs
Theories of wages - wage structure - wage fixation - wage payment - salary administration. Difference between salary and wages - Basis for compensation fixation- Components of wages - Basic Wages - Overtime Wages - Dearness Allowance - Basis for calculation - Time Rate Wages and Efficiency Based Wages - Incentive Schemes - Individual Bonus Schemes, Group Bonus Schemes - Effect of various labour laws on wages-Preparation of Pay Roll

UNIT- 4: REWARDS AND INCENTIVES 10 Hrs
Rewards for Sales personnel - Pay - commission - Performance based pay system - incentives - executives compensation plan and packages.

UNIT- 5: REGULATORY BODIES FOR COMPENSATION MANAGEMENT 10 Hrs
Wage Boards - Pay Commissions - Compensation Management in Multi-National organizations.

SKILL DEVELOPMENT

- List out the fringe benefits offered to employees of any two companies
- Discuss the role of regulatory bodies in compensation management
- List out various Incentive Schemes of wage payments

BOOKS FOR REFERENCE

1. Compensation & Reward Management, BD Singh, Excel Books
2. Compensation, Milkovich & Newman, TMH
3. Strategic Compensation, Joseph J. Martocchio, 3rd Edition, Pearson Education
- 4 Compensation Management in a Knowledge based world, Richard I. Anderson, 10th edition, Pearson Education
- 6 Compensation Management, Er Soni Shyam Singh, Excel Books.

7. Richard Thrope & Gill Homen : Strategic Reward Systems - Prentice-Hall.
8. Thomas.P.Plannery, David.A.Hofrichter & Paul.E.Platten: PEOPLE, PERFORMANCE & PAY
Free Press.
9. Michael Armstrong & Helen Murlis: Hand Book of Reward Management – Crust
Publishing House.
10. Joseph.J. Martocchio: Strategic Compensation - A Human Resource Management
Approach - Prentice-Hall.
11. Edward.E. Lawler III: Rewarding Excellence (Pay Strategies for the New Economy) –
Jossey -Bass.



BANGALORE UNIVERSITY

SYLLABUS 2012-13
BBM Degree Semester Scheme

DEPARTMENT OF COMMERCE
Bachelor of Business Management
Central College Campus, Bangalore – 560 001

Copy
for the
concerned

[Signature]
03/5/12


BANGALORE UNIVERSITY
DEPARTMENT OF COMMERCE

REGULATIONS PERTAINING TO BBM DEGREE SEMESTER SCHEME

I. Objectives :

1. To develop entrepreneurs
2. To develop ethical managers with inter disciplinary knowledge
3. To develop business philosophers with a focus on social responsibility and ecological sustaina.
4. To prepare students to take the responsibility of full line of marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of human resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality, competency and holistic approach.
7. To prepare students to take up higher education to become business scientists, researchers, consultants and teachers, with core competencies.

II. Eligibility for Admission:

Candidates who have completed two - year Pre - University course of Karnataka State or its equivalent are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is 3 years of six semesters. A candidate shall complete his/her degree within six (6) academic years from the date of his/her admission to the first semester.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VI. COURSE MATRIX

See Annexure - 1

VII. TEACHING AND EVALUATION:

M.Com, M.FA., M.B.S and M.B.A. graduates with B.Com, B.B.M and B.B.S as basic degree from a recognized university are only eligible to teach and evaluate the subjects including (excepting languages, compulsory additional subjects and core Information Technology related subjects) subjects mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

IX. PROJECT REPORT AND VIVA-VOCE:

- a. The Project report in the sixth semester carries 100 marks which shall form part of Sixth semester examination.
- b. There shall be single valuation of project report and this will be done simultaneously along with Vive - Voce. Internal Assessment does not carry any marks.
- c. The principal of the college shall submit the project reports of the students, to the university within three days after the completion of VI semester examination.
- d. Candidate shall obtain a minimum of 35% marks (Including Viva-Voce) in this subject (project Report) failing which he she shall revise and resubmit before the commencement of the next examination. However, no student shall be allowed to resubmit the project report after three consecutive chances.
- e. The student who fails to submit the project report shall not be permitted to take the examination.
- f. The board of examiners or their nominees' shall conduct viva-voce examination for Project Report.

X. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programmes per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

XI. SCHEME OF EXAMINATION:

There shall be a university examination at the end of each semester. The maximum marks for the university examination in a paper shall be 100 marks. For Skill development Record maintenance grades shall be awarded.

Grades for Skill Development Record maintenance shall be awarded by the teacher who taught the paper. And the teacher concerned shall hand over within three day after end of the semester period, the grade's list to the Head of the Department who in turn shall handover, within the next three days, to the principal.

The principal shall display grades on the notice board paper-wise and student-wise one week prior to the commencement of the semester examination. And the original copy of the same, duly signed by the principal, shall be sent by the principal to the registrar (Evaluation) before the commencement of the semester examination.

XII. APPEARANCE FOR THE EXAMINATION: .

A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if:

- a. A Candidate shall apply for all the parts in each examination when he/she has submitted the prescribed application for the examination along with the required fees.
- b. A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c. Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.

- d. A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XIII. MINIMUM FOR A PASS:

Candidates who have obtained at least 35% of marks in aggregate in each subject shall be eligible for a pass or exemption in the subject. The minimum mark per paper is 35%. However, there is no minimum mark for pass for record maintenance.

XIV. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 35% and above but less than 50% of marks in part I, II and III.
2. The results of the degree course as a whole shall be declared on the basis of the aggregate marks obtained by the candidates in management subjects of the First year, Second year and Third year degree course put together as follows.
 - a. First Class: Those who obtain 60% and above of the aggregate in the commerce subjects of First year, Second year and Third year degree course.
 - b. Second Class: Those who obtain 50% and above but less than 60% of the aggregate marks in the commerce subjects of the First year, Second year and Third year degree course.
 - c. Pass Class: Rest of the successful candidates who obtain 35% and above but less than 50% of the aggregate marks in the commerce subjects of the First year, Second year and Third year degree course.
- iii) Class and Ranks shall be declared on the basis of the aggregate marks obtained by the candidates in the management subjects of the First to six semester of degree course as a whole. However, only those candidates who have passed each semester public examination in the first attempt only shall be eligible for the award of ranks. The first ten ranks only shall be notified.

XV. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XVI. CONDITIONS TO KEEP TERMS:

- a. A candidate is allowed to carry all the previous uncleared papers to the subsequent semester/semesters.
- b. Such of those candidates who have failed/remained absent/opt to improve in anyone or more papers (theory/practical/dissertation/project work/field work) henceforth called as repeaters, shall appear for exam in such paper/s during the three immediate successive examinations.
- c. Examination for odd/even semester shall be conducted respectively at the end of odd/even semester (odd with odd, even with even).
- d. The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XVII. PATTERN OF QUESTION PAPER:

Each theory question paper shall be 3 hours duration for each Examination. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,h,i,j,	(Conceptual questions) Answer any EIGHT	(08 X 2 = 16 Marks)
SECTION -B: 2,3,4,5.	(Analytical questions) Answer any THREE	(03 X 8 = 24 Marks)
SECTION-C: 6,7,8,9,10.	(Essay type questions) Answer QUESTION NO. 10 and any THREE of the remaining.	(04 X 15 = 60 Marks)
Total		100 Marks

XVIII. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or any subject within 30 days after the publication of the result. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XIX. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provisions of these Regulations, the Vice-Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
COURSE STRUCTURE 2012-13 Scheme
B.B.M. COURSE MATRIX

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
I	1.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	1.2	LANGUAGE: ENGLISH	04	100
	1.3	Fundamentals of Accounting	04	100
	1.4	Business Organisation and Environment	04	100
	1.5	Quantitative Methods for Business - I	04	100
	1.6	Market Behaviour & Cost Analysis	04	100
	1.7	Management Process	04	100
II	2.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	2.2	LANGUAGE: ENGLISH	04	100
	2.3	Financial Accounting	04	100
	2.4	Quantitative Methods for Business - II	04	100
	2.5	Organizational Behavior	04	100
	2.6	Production and Operations Management	04	100
	2.7	Environmental Studies	04	100
UGC	3.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	3.2	Soft Skills for Business	04	100
	3.3	Corporate Accounting	04	100
	3.4	Human Resource Management	04	100
	3.5	Services Management	04	100
	3.6	Corporate Environment	04	100
	3.7	Computer Fundamentals	04	100
III	4.1	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Additional English / Marathi / Hindi	04	100
	4.2	Business Research Methods	04	100
	4.3	Marketing Management	04	100
	4.4	Financial Management	04	100
	4.5	Business Regulations	04	100
	4.6	Cost Accounting	04	100
	4.7	Indian Constitution	04	100
IV	5.1	Entrepreneurial Management	04	100
	5.2	Computer Applications in Business	04	100
	5.3	Banking Regulations & operations	04	100
	5.4	Corporate Governance	04	100
	5.5	Management Accounting	04	100
	5.6	Elective - Paper -I	04	100
	5.7	Elective - Paper -II	04	100
V	6.1	International Business	04	100
	6.2	E-Business	04	100
	6.3	Income Tax	04	100
	6.4	Strategic Management	04	100
	6.5	Elective - Paper-III	04	100
	6.6	Elective - Paper -IV	04	100
	6.7	Project Report & Viva-voce (75 marks + 25 marks)		100
VI				

ELECTIVE GROUPS

1. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Advanced Financial Management	04	100
	5.7	Financial Markets & Services	04	100
VI	6.5	Investment & Portfolio Management ✓	04	100
	6.6	Stock And Commodity Markets ✓	04	100

2. MARKETING GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Consumer Behavior	04	100
	5.7	Advertising & Media Management	04	100
VI	6.5	Brand Management ✓	04	100
	6.6	Retail Management ✓	04	100

3. HUMAN RESOURCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Employee Welfare & Social Security	04	100
	5.7	Strategic HRM	04	100
VI	6.5	Organizational Change & Development ✓	04	100
	6.6	Compensation Management ✓	04	100

4. INTERNATIONAL BUSINESS GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	International Marketing Management	04	100
	5.7	International Financial Management	04	100
VI	6.5	International HRM ✓	04	100
	6.6	Exim & Forex Management ✓	04	100

5. INFORMATION & TECHNOLOGY GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.6	Accounting Information Systems	04	100
	5.7	Enterprise Resource Planning	04	100
VI	6.5	Information Technology And Audit ✓	04	100
	6.6	Banking Technology and Management ✓	04	100

1.3 FUNDAMENTALS OF ACCOUNTING

OBJECTIVE

The objective of this course is to acquaint students with the accounting concepts, tools and Techniques influencing business organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING **08 Hours**

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions. List of Indian Accounting Standards.

Unit 2: ACCOUNTING PROCESS **12 Hours**

Meaning – Process of Accounting – Kinds of Accounts – Rules - Transaction Analysis – Journal – Ledger – Balancing of Accounts – Trial Balance

Unit 3: SUBSIDIARY BOOKS **12 Hours**

Meaning – Significance – Types of Subsidiary Books – Purchases Book – Sales Book – Purchase Returns Book – Sales Return Book – Bills Receivable Book – Bills Payable Book – Cash Book (Simple Cash Book, Double Column Cash Book, Three Column Cash Book and Petty Cash Book) and Journal proper. Bank Reconciliation Statement – Preparation of Bank Reconciliation Statement

Unit 4: RECTIFICATION OF ERRORS **08 Hours**

Meaning – Kinds of Accounting Errors and Methods of Rectification of Errors – when suspense account is required and when suspense account is not required.

Unit 5: FINAL ACCOUNTS OF PROPRIETARY CONCERN **10 Hours**

Preparation of Trading Account, Profit & Loss Account and Balance Sheet.

Unit 6: SINGLE ENTRY SYSTEM **10 Hours**

Meaning – Features – Types – Merits – Demerits – Differences – Preparation of Opening Statement of Affairs, Closing Statement of Affairs, Computation of Profit/Loss and revised Statement of Affairs

SKILL DEVELOPMENT

- List out the accounting concepts and conventions.
- List out any ten errors disclosed by trial balance
- Collect the final accounts of a proprietary concern and present it vertical form.
- Prepare a Bank Reconciliation Statement with imaginary figures

BOOKS FOR REFERENCE

- 1) Dr. S.N. Maheswari, *Financial Accounting*
- 2) Jawaharlal & Seema Srivastava: *Financial Accounting, HPH*
- 3) BS Raman, *Financial Accounting*
- 4) Grewal and Gupta, *Advanced Accounting*
- 5) Dr. Anil Kumar, Dr. Rajesh Kumar, B. Mariyappa; *Financial Accounting*
- 6) S. P Jain and K. L. Narang ; *Financial Accounting*
- 7) R.G. Saha, *Fundamentals of Accounting*
- 8) S Jayapandian: *Financial Accounting from Zero,*

1.4 BUSINESS ORGANISATION AND ENVIRONMENT

OBJECTIVE

To familiarize the students with aspects of Business Organization and its Environment.

Unit 1: INTRODUCTION TO BUSINESS ORGANIZATION 10 Hours

Meaning of Business – Classification of Business Activities – Industry – Types of Industry – Commerce – Trade – Aids to Trade – Meaning – Advantages and Disadvantages

Unit 2: FORMS OF BUSINESS ORGANIZATION 15 Hours

Sole Proprietorship – Meaning – Characteristics – Advantages and Disadvantages. Partnership – Meaning – Characteristics – Advantages and Disadvantages - Types of Partners. Co-operative Society - Meaning – Characteristics – Types – Advantages and Disadvantages.

Unit 3: JOINT STOCK COMPANY 08 Hours

Meaning – Definition – Features – Types of Companies – Formation of a Company.

Unit 4: BUSINESS ENVIRONMENT 15 Hours

Meaning and Importance. Dimensions of Business Environment – Political, Economic, Social, Legal, Natural and Technological Environment.

Unit 5: GOVERNMENT AND BUSINESS 12 Hours

Meaning and Importance, Impact of Government policy on business and industry with reference to liberalization, privatization and globalization.

SKILL DEVELOPMENT

- Draw a Business Tree
- Prepare a Partnership deed
- Prepare Memorandum and Article of Association of any company
- Impact of Globalization on Indian Business and Industry
- State the impact of Technology on Indian Business

BOOKS FOR REFERENCE

- 1) Dr. Aswathappa: *Essentials of Business Environment*
- 2) Francis Cherrunilam : *Business Environment*
- 3) Dr. Ramachandra; *Business Environment*
- 4) Raj Agarwal – *Business Environment*
- 5) Vivek Mittall, – *Business Environment*

1.5 QUANTITATIVE METHODS FOR BUSINESS - I

OBJECTIVE

To provide basic knowledge of quantitative methods and their application to commercial situations and for decision making in business.

Unit 1: NUMBER SYSTEM

04 Hours

Introduction – Natural Numbers – Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems)

Unit 2: THEORY OF EQUATIONS

14 Hours

Introduction – Meaning – Types of Equations – Simple, Linear and Simultaneous Equations (only two variables) Eliminations and Substitution Method only. Quadratic Equation – Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Application.

Unit 3: PROGRESSIONS

12 Hours

Introduction – Arithmetic Progression - Finding the n^{th} term of an AP and Sum to n^{th} term of AP. Insertion of Arithmetic Means in given terms of AP and representation of AP. Geometric Progression – Finding n^{th} term of GP – Sum to n^{th} Term of GP – Insertion of Geometric Means in given Geometric Progression and also representation of GP.

Unit 4: MATRICES AND DETERMINANTS

15 Hours

Introduction, Meaning, types of matrices – operations of addition, subtraction, multiplication of two matrices – problems, transpose of a square matrix. Determinant of a square matrix- minor of an element, co-factor of an element of a determinant. adjoint of a square matrix, singular and non-singular matrices – inverse of a square matrix – Problems on linear equations in two variables using Cramer's rule.

Unit 5: COMMERCIAL ARITHMETIC

15 Hours

Simple interest, compound interest including half yearly and quarterly calculations, annuities Percentages, bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. Proportions, third, fourth and inverse proportion - problems.

SKILL DEVELOPMENT

1. Calculation of future value of present value.
2. Calculation of geometric mean i.e, CAGR.
3. Calculation of EMI, Premium amount.

BOOKS FOR REFERENCE

- 1) A.Lenin Jothi : *financial Mathematics*
- 2) Saha: *Mathematics for Cost Accountants.*
- 3) Ranganath: *Business Mathematics*
- 4) G.R. Veena & Seema: *Business Mathematics and Statistics, I.K. Intl*
- 5) Dr. Sancheti & Kapoor: *Business Mathematics and Statistics.*
- 6) Zamarudeen: *Business Mathematics.*
- 7) Dikshit & Jain : *Business Mathematics*
- 8) R. Selvaraj, *Quantitative Methods in Management*

1.6 MARKET BEHAVIOUR AND COST ANALYSIS

Objective: to familiarize the students with the basic concepts of market forces and pricing decisions.

Unit 1: Market Forces 10 hrs

Demand: meaning, law of demand, nature of elasticity of demand, determinants of elasticity of demand, cost of advertisement and derived demand relations. Demand forecasting- meaning and methods (problems on trend projection by method least square). Supply- Law of supply, determinants of supply.

Unit 2: Cost and Profit Planning 14 hrs

Cost- meaning of short run and long run costs, fixed and variable costs, explicit and implicit costs, opportunity cost and incremental cost (concepts only). Total cost average cost and marginal cost behavior in short run and long run (including problems). CVP Analysis- BEP, BE Chart, margin of safety, P/V ratio, profit planning, make or buy decisions (including problems at alternative cost and sales).

Unit 3: Pricing practices and Strategies 12 hrs

Determinants of pricing policy, pricing methods- marginal cost pricing, target rate pricing, product line pricing, administered pricing, competitive bidding, dual pricing, transfer pricing. Price discrimination- requirements, types and dumping strategies. Pricing over product life cycle- skimmed pricing, penetration pricing, product -line pricing and price leadership.

Unit 4: Cost of capital and Capital budgeting 10 hrs

Meaning and types of capital, specific cost of capital; debt, preference shares and equity shares and weighted average cost of capital (concepts only). Capital budgeting- meaning and significance (problems on PB period and NPV methods only).

Unit 5: Firms and Decisions 14 hrs

Firm: meaning and goals, profit verses value (wealth) maximization dynamics (with time value of money), Decision making, decisions under market uncertainty situations, tactical verses strategic decisions and game theory. Linear programming and sensitivity analysis - basic assumptions, merits and demerits - simple problems.

SKILL DEVELOPMENT

1. Compute the BEP for a Business unit.
2. Calculate the cost of capital for a manufacturing unit.

References

1. P.L Mehta: *Managerial Economics*, Sultan Chand & Sons, New Delhi.
2. D.M. Mithani: *Managerial Economics*, Himalaya Publishing House, New Delhi.
3. R.L Varshney and K.L Maheshewari: *Managerial Economics*, Sultan Chand & Sons, New Delhi.
4. H.L Ahuja: *Business Economics*, S. Chand & Company Ltd., New Delhi.
5. Venugopal : *Economics for Business*, I.K. Intl.
6. Reddy & Appananiah: *Economics for Business*
7. K.M.Pandey & Others: *Economics for Managerial Decisions*
8. K.P.M Sundaram: *Micro Economics*, Sultan Chand & Sons, New Delhi.
9. M.L. Jhingan & J.K. Stephen: *Managerial Economics*, Vrinda Publishihing (P) Ltd. Delhi.
10. Manoj Kumar Mishra : *Managerial Economics*, Voyu Education of India, New Dehli.
11. Srivastava R.M. : *Financial Management - Management and Policy* ,HPH
12. Khan and Jain: *Financial Management*, Tata McGraw Hill Education Private Ltd., New Delhi
13. R.K. Sharma and S.K. Gupta: *Financial Management*, Kalyani Publications, Ludiana.
14. Atmananad, *Managerial Economics*

1.7 MANAGEMENT PROCESS

OBJECTIVES:

To familiarize the students with concepts and principles of Management

Unit 1: INTRODUCTION TO MANAGEMENT

10 Hours

Introduction - Meaning, nature and characteristics of Management - Scope and functional areas of management - Management as a science art or profession - Management & Administration - Principles of management - Social responsibility of management and Ethics.

Unit 2: PLANNING

08 Hours

Nature importance and purpose of planning - Planning process, Objectives - Types of plans (Meaning only) - Decision making - importance & steps.

Unit 3: ORGANIZING & STAFFING

14 Hours

Nature and purpose of organization, Principles of organization - Types of organization - Departmentation, Committees - Centralization Vs decentralization of authority and responsibility - Span of Control - MBO and MBE (Meaning only) - Nature and importance of staffing - Process of selection & recruitment (in brief).

Unit 4: DIRECTING

14 Hours

Meaning and nature of directing - Motivation theories (Maslow's, Herzberg, McGregors X & Y theory) - Communication meaning and importance, barriers to communication, types of communication - Coordination meaning and importance.

Unit 5: CONTROLLING

10 Hours

Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief).

SKILL DEVELOPMENT

- Different types of Organization Charts (structure).
- Chart on Staffing.
- Graphic representation of Maslow's Theory.
- Chart on Media of Communication.
- Chart on sources of recruitment.
- Draft Control chart for different industry / business groups.

BOOKS FOR REFERENCE

- 1) Koontz & O'Donnell, *Management*.
- 2) Appaniah & Reddy, *Management*.
- 3) T. Ramaswamy : *Principles of Management*
- 4) L M Prasad, *Principles of management*.
- 5) Karampal : *Management Process & Organisational Behaviour, I.K. Intl*
- 6) Rustum & Davan, *Principles and practice of Management*.
- 7) S V S Murthy, *Essentials of Management*.
- 8) Thomas. N. Duening & John. M. Ivan cevich, *Management, Principles and Guidelines, Biztantra Publications*.
- 9) Tripathi & Reddy, *Principles of Management*.
- 10) Kandepu : *Elements of Functional Administration*
- 11) Rekha & Vibha: *Business Management*
- 12) VSP Rao/Bajaj, *Management process and organization*.

2.3 FINANCIAL ACCOUNTING

OBJECTIVE

The objective of this course is to acquaint students with the accounting concepts, tools and Techniques influencing business organizations.

Unit 1: DEPARTMENTAL ACCOUNTS

13 Hours

Introduction – Meaning – Objectives – Apportionment of Revenue Items – Inter Departmental Transfers at Cost Price – At Selling Price – Preparation of Departmental Trading and Profit & Loss Account – General P&L Account – Balance Sheet.

Unit 2: INSURANCE CLAIMS

12 Hours

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 3: HIRE PURCHASE AND INSTALLMENT SYSTEMS

15 Hours

Introduction – Meaning – Hire Purchase Act 1972 – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor. Installment System – Meaning – Features – Differences between Hire Purchase System and Installment Purchase System

Unit 4: ROYALTY ACCOUNTS

15 Hours

Introduction – Meaning – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under Fixed Period – Floating Period – Recoupment within the Life of a Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee – Preparation of Ledger Accounts – Royalty Account – Landlord Account – Short Workings Account – Minimum Rent Account when Minimum Rent Account is required.

Unit 5: SALE OF PARTNERSHIP TO A LIMITED COMPANY

15 Hours

Introduction – Need for conversion – Meaning of Purchase Consideration – Mode of Discharge of Purchase Consideration – Method of calculation of Purchase Consideration – Net Payment Method – Net Asset Method – Passing of Journal Entries and Preparation of Ledger Accounts in the books of Vendor – Treatment of certain items – Dissolution Expenses – Unrecorded Assets and Liabilities – Assets and Liabilities not taken over by the Purchasing Company – Contingent liabilities – Non-assumption of trade liabilities – In the books of Purchasing Company – Passing of Incorporation entries.

SKILL DEVELOPMENT

- problems on calculation of purchase consideration when a firm is converted into a limited company
- Computation of cash price, interest components and hire purchase installments taking any problem
- Understand the meaning and purpose of loss of stock insurance including the average clause
- A problem on royalty highlighting the significance of minimum rent and recoupment of short workings

BOOKS FOR REFERENCE

- 1) M.A.Arunachalam & K.S.Raman: *Advanced Accountancy*
- 2) B.S. Raman, *Advanced Accountancy Vol II*
- 3) Shukla and Grewal, *Advanced Accountancy*
- 4) Gupta and Radhaswamy, *Advanced Accountancy Vol I & II*
- 5) Agarwal and Jain, *Advanced financial Accounting*
- 6) Guruprasad Murthy : *Financial Accounting*
- 7) Maheshwari, *Advanced Accountancy Vol I & II*
- 8) B.M. Lall Nigam & G.L. Sharma, *Advanced Accountancy*
- 9) S.N. Maheshwari & S.K. Maheshwari, *Financial Accounting*
- 10) Jain S.P & Narang K.L, *Basic Financial Accounting*
- 11) S. Anil Kumar, Mariappa & V. Rajesh Kumar, *Financial Accounting*
- 12) V.K. Goyal, *Financial Accounting 2nd Edition*

2.4 QUANTITATIVE METHODS FOR BUSINESS - II

OBJECTIVE

To provide basic knowledge of quantitative methods and their application to commercial situations for decision making in business.

Unit 1: INTRODUCTION TO STATISTICS 04 Hours

Background and Basic concepts: Classification and Tabulation of Data, Introduction – Definition of Statistics – Functions – Scope – Limitations.

Unit 2: MEASURES OF CENTRAL TENDENCY 14 Hours

Introduction – Types of averages – Arithmetic Mean (Simple and Weighted) – Median – Mode – Graphs – Histogram and Ogive Curves.

Unit 3: MEASURE OF DISPERSION 12 Hours

Introduction – Meaning & Definition – Methods of dispersion – Range – Quartile Deviation – Mean Deviation – Standard Deviation and Coefficient of Variation.

Unit 4: CORRELATION AND REGRESSION ANALYSIS 10 Hours

Correlation – Meaning & Definition - Uses – Types – Probable error – Karl Pearson's & Spearman's Rank Correlation (Excluding bivariate and Multi correlation).
Regression – Meaning and Definition, Regression Equations - Problems.

Unit 5: INDEX NUMBERS 10 Hours

Meaning & Definition – uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method including Time and Factor Reversibility tests – Consumer Price Index – Problems

Unit 6: TIME SERIES 10 Hours

Introduction – Meaning and Definition – Uses – Components of Time Series – Computation of Trend Values – Moving Averages Method and Method of Least Squares.

SKILL DEVELOPMENT

- Collect the age statistics of 10 married couples and compute correlation coefficient.
- Collect the age statistics of 10 newly married couples and compute regression equations. Estimate the age of bride when age of bridegroom is given.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate cost of living index.
- Collect the turnover of a company for 7 years and predict the sales of 8th year by using method of least square.

BOOKS FOR REFERENCE

- 1) S P GUPTA: *Statistical Methods*- Sultan Chand, Delhi
- 2) C.R.reddy : *Quantitative Techniques for Management Decisions*
- 3) Dr. B N GUPTA: *Statistics (Sahitya Bhavan)*, Agra.
- 4) Veerchamy : *Operation Research I.K. International Publishers*
- 5) S C GUPTA: *Business Statistics, Himalaya Publications.*
- 6) ELLAHANCE : *Statistical Methods*
- 7) SANCHETHI AND KAPOOR: *Business Mathematics*
- 8) R.S Bhardwaj: *Business Statistics*
- 9) C.S Mujawar : *Statistics for Managers I.K. International Publishers*

2.5 ORGANISATIONAL BEHAVIOUR

OBJECTIVE: To enable the students to understand the Organizational Behavior and Organizational Change.

Unit 1: ORGANIZATIONAL BEHAVIOUR 04 Hours

Organization - Meaning and significance - The study of organization behaviour - Definition - Scope and Application in Management - Contributions of other disciplines - Organizational structure, challenges facing management, Emerging Organizations.

Unit 2: PERCEPTION AND ATTITUDES 10 Hours

Meaning - Need - Perceptual Process - Perceptual Mechanism - Factors influencing perception - Interpersonal perception.

Meaning - Characteristics of Attitudes - Components of Attitude - Attitude and Behaviour - Attitude formation and Measurement of Attitudes

Unit 3: LEARNING AND BEHAVIOUR MODIFICATION 06 Hours

Principles of learning & Reinforcement - observational learning - Cognitive Learning - Organizational Behaviour Modification - Steps in Organizational Behaviour Modification process - Organizational Reward Systems

Unit 4: PERSONALITY 06 Hours

Determinants of Personality - Biological factors - Cultural factors - family and Social Factors - Situational factors - Personality attributes influencing OB, Interactive Behaviour and Interpersonal Conflict.

Unit 5: GROUP DYNAMICS & LEADERSHIP 12 Hours

Meaning - Types of Groups - Functions of small groups - Group Size Status - Managerial Implications - Group Behaviour - Group Norms - Cohesiveness - Group Think, Formal and Informal Leadership Characteristics Leadership Styles - Autocratic / Dictatorial - Democratic / Participative, Free reign/Laissez faire Leadership Styles & Management Activities, Interpersonal Communication.

Unit 6: ORGANIZATIONAL CHANGE 12 Hours

Meaning - Nature of work change - Pressure for change - Change process - Types of change - Factors influencing change - resistance to change - overcoming resistance - Organizational Development - different techniques.

SKILL DEVELOPMENT

- Meaning of job enrichment and list the reconcilements of job enrichments
- Characteristics of attitudes and components of attitudes - A brief explanation
- List the determinants of personality

- Factors influencing perceptions – A brief explanation
- List the characteristics of various leadership styles.

BOOKS FOR REFERENCE

- 1) Robbins, *Organizational Behaviour*
- 2) John W. Newstrom & Keith Davis, *Organizational Behaviour*
- 3) Fred Luthans, *Organizational Behaviour*
- 4) K. Aswathappa, *Organizational Behaviour*
- 5) M. Gangadhar, V.S.P.Rao and P.S.Narayan, *Organizational Behaviour*
- 6) M.N.Mishra: *Organisational Behaviour and Corporate Development*
- 7) Karamapl : *Business Management & Organizational Behavioral* I.K. International publi
- 8) N.S. Gupta, *Organizational Behaviour*
- 9) Jit. S. Chandan, *Organisational Behaviour*
- 10) Sharma R.K & Gupta S.K, *Management and Behaviour Process.*
- 11) Appanniah &, *Management and Behavioural Process.*
- 12) P.G. Aquinas *Organizational Behavior*

2.6 PRODUCTION AND OPERATIONS MANAGEMENT

Objective

The objective of the course is to make the students to understand the concepts of production and operations management of an industrial undertaking and the benefits of automation.

Unit 1: INTRODUCTION TO PRODUCTION AND OPERATIONS MANAGEMENT

11 Hours

Introduction - Meaning & Definition - Classification - Objectives and scope of Production and operation Management - Objectives of Operations Management - Scope of Production and Operations management. Automation: Introduction - Meaning and Definition - Need - Types - advantages and Disadvantages.

Unit 2: PLANT LOCATION AND LAYOUT

08 Hours

Introduction - Meaning & Definition - Factor affecting location, theory and practices, cost factor in location - plant layout principles - space requirement, Different types of facilities, Organization of physical facilities - building, sanitation, lighting, air conditioning and safety.

Unit 3: MATERIALS MANAGEMENT

10 Hours

Introduction - Meaning & Definition - Purchasing, selection of suppliers, inventory management, material handling principles and practices, economic consideration, criteria for selection of materials handling equipment, standardization, codifications, simplification, inventory control, Techniques of inventory control - Value analysis, value engineering - Human engineering - Inter- relationship of plant layout and materials handling, SCM

Unit 4: PRODUCTION PLANNING AND QUALITY CONTROL

10 Hours

Objectives and concepts, capacity planning, corresponding production planning, controlling, scheduling routing - Quality Control - Statistical quality control, Quality management, Control charts and operating characteristic curves, acceptance sampling procedures, quality circle, Meaning of ISO and TQM.

Unit 5: TIME AND MOTION STUDY

08 Hours

Introduction - Productivity - factors influencing productivity - Concept of Standard Time, Method study, time and motion study, charts and diagrams, work measurements.

Unit 6: MAINTENANCE AND WASTE MANAGEMENT

10 Hours

Introduction – Meaning – Objectives - Types of maintenance, Break down, spares planning and control, preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern scientific maintenance methods - Waste Management - Scrap and surplus disposal, salvage and recovery.

SKILL DEVELOPMENT

1. Visit any industry and list out the stages of PPC with as many details as possible.
2. List out the Functions of Materials management in an organization
3. Describe the Functions of Quality Circles in an industry
4. Draw a ISO specification chart
5. Visit a company and List out Environmental issues.
6. Visit a company and draw a chart on Plant layout.

BOOKS FOR REFERENCE

- 1) *SN Chary, Production & Operations Management*
- 2) *Ashwathappa. K & Sridhar Bhatt : Production & Operations Management*
- 3) *Alan Muhlemann, John Oaclank and Keith Lockyn, Production & Operations Management*
- 4) *K K Ahuja, Production Management*
- 5) *S.A.Chunawalla & Patel: Production & Operations Management*
- 6) *Everett E Adam Jr., and Ronald J Ebert, Production & Operations Management*
- 7) *Dr. L. N. Agarwal and Dr. K.C. Jain, Production Management*
- 8) *Thomas E. Morton, Production Operations Management*
- 9) *Gondhalekar & Salunkhe : Productivity Techniques*
- 10) *U. Kachru, Production & Operations Management*

3.2 SOFT SKILLS FOR BUSINESS

OBJECTIVE: *To develop both Oral and written communication skill concerning organizational and Busies issues*

Unit 1: ELEMENTS OF COMMUNICATION

06 Hours

Meaning, Importance, objectives & Principles of Communication, types and forms of communication, Process, impediments of effective communication, strategies for effective communication.

Unit 2: NONVERBAL COMMUNICATION

10 Hours

Body Language, Gestures, Postures, Facial Expressions, Dress codes, The Cross Cultural Dimensions of Business Communication, Listening & Speaking, Techniques of Eliciting Response, Probing Questions, Observation, Business and social etiquettes.

Unit 3: PUBLIC SPEAKING – IMPORTANCE OF PUBLIC SPEAKING SPEECH COMPOSITION

10 Hours

Principles of Effective Speech & Presentations. Technical speeches & Non-technical presentations. Speech of introduction of a speaker - speech of vote of thanks -occasional speech - theme speech. Moderating programs Use of Technology

Unit 4: INTERVIEW TECHNIQUES

08 Hours

Importance of Interviews, Art of conducting and giving interviews, Placement interviews - discipline interviews - appraisal interviews – exit interviews.

Unit 5: MEETINGS**06 Hours**

Importance, Meetings opening and closing Meetings Participating and Conducting Group discussions. Brain Storming , E- Meetings

Unit 6: BUSINESS COMMUNICATION**10 Hours**

Business letters: Inquiries, Circulars, Quotations, Orders, Acknowledgments Executions, Complaints, Claims & adjustments, Collection letter, Banking correspondence, Agency correspondence, Bad news and persuading letters, Sales letters, Job application letters - Bio-data, Covering Letter, Interview Letters, Letter of Reference. Memos, minutes, Circulars & notices.

Unit 7: CARRIER PLANNING

Awareness of different carries sources of information, choosing a carrier, carrier counseling, and Resume preparation preparing for group discussion

SKILL DEVELOPMENT

1. Conduct a mock meeting and draft minutes of the meeting.
2. Draft a letter of enquiry to purchase a laptop.
3. Draft your bio-data.

BOOKS FOR REFERENCE

- 1) *Soft Skills of Personality Development: C.G.G Krishnamacharyulu & Lalitha*
- 2) *Lesikar, R.V. & Flatley, M.E. (2005). Basic Business Communication Skills for Empowering the Internet Generation. Tata McGraw Hill Publishing Company Ltd. New Delhi.*
- 3) *Rai & Rai: Business Communication Himalaya Publishing House*
- 4) *Ludlow, R. & Panton, F. (1998). The Essence of Effective Communications. Prentice Hall of India Pvt. Ltd.*
- 5) *M.S. Rao : Soft Skills – Enhancing Employability I.K. International*
- 6) *Rao & Das : Communication Skills*
- 7) *Adair, J. (2003). Effective Communication. Pan Mcmillan.*
- 8) *Thill, J. V. & Bovee, G. L. (1993). Excellence in Business Communication. McGrawHill, New York.*
- 9) *Bowman, J.P. & Branchaw, P.P. (1987). Business Communications: From Process to Product. Dryden Press, Chicago.*
- 10) *Sharma S.P. & Others, Business Communication*
- 11) *Rajkumar, Basic of Business Communication*
- 12) *Banerjee : Soft Skills Business and Professional Communication, I.K. International*

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this course is to enable the students to have a comprehensive awareness about the provisions of the company's act and corporate accounts.

Unit 1: COMPANY FINAL ACCOUNTS

20 Hours

Statutory Provisions regarding preparation of Company Final Accounts – Treatment of Special Items – Managerial Remuneration – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet as per Section 219(1)(b)(IV) and form 23AB. Abridged Profit and Loss Account – Abridged Balance Sheet (Vertical Form).

Unit 2: ISSUE OF SHARES

10 Hours

Meaning of Share, Types of Shares – Preference share and equity shares – Issue of Shares at Apr, at Premium, at Discount, Pro – Rate Allotment – Journal Entries – And Bank Accounts – Balance Sheet

Unit 3: UNDERWRITING OF SHARES

10 Hours

Meaning – Terms used in Underwriting – Underwriter – Marked Applications – Unmarked Applications – Partial Underwriting – Complete Underwriting – Pure Underwriting – Firm Underwriting – Underwriting Commission – Determination of Net Liability and Total Liability.

Unit 4: VALUATION OF GOODWILL

10 Hours

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill - Average Profit Method – Super Profit Method – Capitalization of Super Profit Method – Annuity Method – Capitalization of Profit Method.

Unit 5: VALUATION OF SHARES

10 Hours

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation – Asset Backing or Intrinsic Value Method – Yield Method – Earning Capacity Method – Fair Value Method – Rights Issue and Valuation of Rights Issue.

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect a Prospectus of a company and identify the reasons to invest or not to invest in shares.
- List the various functions of Underwriters.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the net Asset value of shares
- List out the conditions to be fulfilled for redemption of Preference shares.

BOOKS FOR REFERENCE

- 1) M.A.Arunachalam & K.S.Raman: Corporate Accounting - II
- 2) Dr. S.N. Maheswari, Financial Accounting.
- 3) Dr. Anilkumar, Dr. Rajesh Kumar and B Mariyappa – Corporate Accounting – I
- 4) S. P. Jain and K. L. Narang – Corporate Accounting
- 5) SP Iyengar, Advanced Accountancy.
- 6) R L Gupta, Advanced Accountancy.
- 7) V.K. Goyal: Corporate Accounting.

3.4 HUMAN RESOURCE MANAGEMENT

OBJECTIVE

To familiarize the students with concepts and principles of Human Resource Management.

Unit 1: HUMAN RESOURCE MANAGEMENT

10 Hours

Introduction – Meaning of HRM – Objectives of HRM – Importance of HRM – Functions and Process of HRM – HR Manager Duties and Responsibilities – Recent trends in HRM.

Unit 2: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION

15 Hours

Meaning – Importance of Human Resource Planning – Benefits of Human Resource Planning. Recruitment – Meaning – Methods of Recruitment. Selection – Meaning – Steps in Selection Process – Problems Involved in Placement.

Unit 3: TRAINING AND INDUCTION

10 Hours

Meaning of Training and Induction, Objective and purpose of induction, Need for training, benefits of training, Identification of training needs and methods of training.

Unit 4: PERFORMANCE APPRAISAL AND COMPENSATION

10 Hours

Introduction – Meaning and Definition – Objectives – Methods of Performance Appraisal – Uses and Limitations of Performance Appraisal. Compensation – Meaning of Compensation – Objectives of Compensation.

Unit 5: PROMOTION AND TRANSFERS

10 Hours

Meaning and Definition of Promotion - Purpose of promotion, basis of promotion, Meaning of transfer, reasons for transfer, types of transfer, right sizing of work force. Need for right sizing.

Unit 6: HUMAN RESOURCE DEVELOPMENT

05 Hours

Meaning of HRD, Role of training in HRD. Knowledge management, Knowledge resources, Impact of globalization on human resource management, problems in relation to Transnational and multinationals.

SKILL DEVELOPMENT

- Prepare a Chart showing the functions of HRM and a brief explanation on the need for each function.
- Prepare an Advertisement for recruitment / selection of candidates for any organization of your choice.
- Give observation of industrial safety practices followed by any organization of your choice.
- Develop a format for performance appraisal of an employee.
- Choose any MNC and present your observations on training programme.

BOOKS FOR REFERENCE

- 1) C.B.Mamoria, *Personnel management*
- 2) Edwin Flippo, *Personnel management*
- 3) Aswathappa, *Human Resource Management*
- 4) Subba Rao, *Personnel and Human Resources management*
- 5) S.sadri & Others: *Geometry of HR*
- 6) Rajkumar : *Human Resource Management I.K. Intl*
- 7) Michael Porter, *HRM and human Relations*
- 8) Biswanath Ghosh, *Human Resource Development and Management.*
- 9) Reddy & Appanniah, *Human Resource Management.*
- 10) Rekha & Raghu , *Human Resource Management*
- 11) Madhurima lall, *Human Resource Management*

3.5 SERVICES MANAGEMENT

OBJECTIVE

To familiarize the students with different services and prepare them with requisite skills to manage.

Unit 1: INTRODUCTION TO SERVICES MANAGEMENT

10 Hours

Meaning of Services – Concepts - Characteristics of Services – Classification of Services – Marketing mix in service industry– Growth of Service Sector – Service processes – Building Customer Loyalty - Managing the Service Sector.

Unit 2: TOURISM AND TRAVEL SERVICES

10 Hours

Introduction – Evolution of Tourism industry – Concept and Nature of Tourism – Significance of Tourism Industry- Market segmentation in tourism- Marketing mix of Tourism - Recent Trends in Tourism and Travel Services.

Unit 3: BANKING AND INSURANCE SERVICES

10 Hours

Banking - Introduction – Traditional Services – Modern Services – Recent Trends in Banking Services. Insurance - Introduction – Meaning and Definition of Insurance – Types of Insurance – Life Insurance – Products of Life Insurance – General Insurance – Types of General Insurance.

Unit 4: FINANCE AND MARKETING SERVICES

15 Hours

Financial services – meaning - features – importance – contribution of financial services in promoting industry – Financial instruments – types – Mutual Funds – factoring – Leasing – Venture Capital. Marketing Services – Meaning – features – importance - Contribution of Marketing Services in promoting industry and impact on growth of economy - customer service; types of marketing services.

Unit 5: HEALTHCARE AND EDUCATIONAL SERVICES

15 Hours

Hospitals – Evolution of Hospital Industry – Nature of Service – Risk involved in Healthcare Services – marketing of medical services – Hospital extension services – Pharmacy, nursing – medical Transcription . Educational services - A brief insight into Indian Education System – Issues in Education – Modern Trends in Education Service.

SKILL DEVELOPMENT

- Prepare a chart on conditions to be complied for Star Hotel Status.
- Procure any two insurance policies (Xerox) and paste them in the record.
- Visit and Travel and Tour agencies and prepare organization chart.
- Interact with tourist operators and identify the areas of tourism management.
- Prepare a chart showing customer service rendered by at least two MF. (Preferably a comparative chart)
- Procedures of Railway ticket booking with specimen of reservation/cancellation slip.
- Procedure for Air ticket booking both domestic and International.

BOOKS FOR REFERENCE

- 1) S.M.Jha: *Services Marketing* HPH
- 2) Shanker, Ravi; *Services Marketing – the Indian Perspective*; Excel Books, New Delhi; First Edition; 2002
- 3) Dr. Ramachandra, Dr. Chandra Shekar ; *Services Management*
- 4) Dr. Shajahan. S; *Service Marketing (Concept, Practices & Cases)*; Himalaya Publishing House; Mumbai; First Edition 2001.
- 5) Dutta : *Service Management*, I.K. International
- 6) Venugopal, Vasanthi & Raghu V.N; *Services Marketing*; Himalaya Publishing house; Mumbai; First Edition 2001.
- 7) Cengiz Haksever etal – '*Service Management and Operations*'; Pearson Education.
- 8) Usha Devi & Others , *Services Management*

3.6 CORPORATE ENVIRONMENT

OBJECTIVE

To enable the students to get familiarized with the existing Company Law and Secretarial Procedure.

Unit 1: FORMATION OF COMPANY

15 Hours

Promotion of Company – Promotion – Incorporation – Capital Subscription and Certificate of Commencement of Business. Memorandum of Association – Definition – Clauses. Articles of Association – Definition – Contents – Distinction between Memorandum of Association and Articles of Association – Alteration of Memorandum of Association and Articles of Association. Prospectus – Meaning – Contents – Statement in Lieu of Prospectus.

Unit 2: CAPITAL OF COMPANY

10 Hours

Share Capital – Meaning of Shares – Kinds of Share – Merits and Demerits of Shares. Debentures – Meaning – Features – Types – Merits and Demerits, Listing of Shares.

Unit 3: COMPANY MEETINGS

12 Hours

Meaning and Definition – Types of Meeting – Statutory Meeting – Annual General Meeting – Extraordinary General Meeting – Board Meeting and Resolutions.

Unit 4: COMPANY SECRETARY

13 Hours

Meaning and Definition – Position – Appointment – Rights – Duties – Liabilities – Qualification and Removal of Company Secretary.

Unit 5: WINDING UP OF COMPANIES

10 Hours

Modes of winding up – commencement of winding up – consequences – official liquidator – powers and duties of liquidator.

SKILL DEVELOPMENT

- Drafting of Memorandum of Association, Drafting of Articles of Association.
- Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
- Drafting Resolutions of various meetings – different types.
- Chart showing Company's Organization Structure.
- Chart showing different types of Companies.

BOOKS FOR REFERENCE

- 1) Maheshwari & Maheshwari : Elements of Corporate Laws
- 2) M.C. Shukla & Gulshan: Principles of Company Law.
- 3) N.D. Kapoor: Company Law and Secretarial Practice.
- 4) K.Ramchandra & Others : Legal System in Business
- 5) M.C. Bhandari: Guide to Company Law Procedures.
- 6) S.C. Kuchal: Company Law and Secretarial Practice.
- 7) Dr. P.N. Reddy and H.R. Appanaiah: Essentials of Company Law and Secretarial Practice, Himalaya Publishers.
- 8) S.S Gulshan: Company Law
- 9) C.L. Bansal: Business & Corporate law

3.7 COMPUTER FUNDAMENTALS

OBJECTIVES

To provide basic knowledge of Computer and its Usage.

Unit 1: INTRODUCTION TO COMPUTERS

10 Hours

General features of a Computer – Generation of Computers - Personal Computer – Workstation – Mainframe Computer and Super Computers. Computer Applications – Data Processing – Information Processing – Commercial – Office Automation – Industry and Engineering – Healthcare – Education – Graphics and Multimedia.

Unit 2: COMPUTER ORGANIZATION

10 Hours

Central Processing Unit – Computer Memory – Primary Memory – Secondary Memory – Secondary Storage Devices – Magnetic and Optical Media – Input and Output Units – OMR – OCR – MICR – Scanner – Mouse – Modem.

Unit 3: COMPUTER HARDWARE AND SOFTWARE

15 Hours

Machine language and high level language – Application software – Computer program – Operating system – Computer virus, antivirus and Computer security – Elements of MS DOS and Windows OS – Computer arithmetic – Binary, octal and hexadecimal number systems – Algorithm and flowcharts – Illustrations – Elements of database and its applications.

Unit 4: MICROSOFT OFFICE

13 Hours

Word processing and electronic spread sheet – An overview of MS WORD, MS EXCEL and MS POWERPOINT – Elements of BASIC programming – Simple illustrations.

Unit 5: COMPUTER NETWORKS

12 Hours

Types of networks – LAN, Intranet and Internet – Internet applications – World wide web – E-mail, browsing and searching – Search engines – Multimedia applications.

LIST OF PRACTICAL ASSIGNMENTS: (12 Sessions of 2 hours each)

- System use, keyboard, mouse operations. Word pad and paint brush.
- Creating a folder and saving a document – 2 sessions.
- Simple MS. DOS commands – 1 Session
- Windows operating system – icons, menus and submenus, my computer – 2 sessions
- Desktop publishing – preparation of a document using MS.WORD – 2 sessions
- Installation of software, virus scanning – illustrations – 1 session.
- Spreadsheet calculations using MS.EXCEL – 1 session.
- BASIC programming – illustrations – 1 session.
- Internet use. Surfing, browsing, search engines, E-mail. – 2 sessions.

BOOKS FOR REFERENCE

- 1) Alexis Leon and Mathews Leon (1999): *Fundamentals of information technology*, Leon Techworld Pub.
- 2) Jain, S.K. (1999): *Information Technology "O" level made simple*, BPB Pub.
- 3) Jain, V.K. (2000): *"O" Level Personal Computer Software*, BPB Pub.
- 4) Sharma Dhiraj: *Information Technology for Business* HPH
- 5) Archanakumar : *Computer Basics with Office automation* I.K. International
- 6) Rajaraman, V. (1999): *Fundamentals of Computers*, Prentice Hall India.
- 7) Hamacher, *Computer Organisation*, Mc Graw.
- 8) Sinha, *Computer Fundamentals*, BPB Pub.
- 9) Saha & Saha : *Computer Fundamentals*
- 10) D. Bharihoke, *Fundamental of Information Technology*.

4.2 BUSINESS RESEARCH METHODS

OBJECTIVE

To create an awareness of the Process of Research, the tools and techniques of research and generation of reports

Unit 1: INTRODUCTION TO RESEARCH

15 Hours

Meaning – Objectives – Types of Research – Scope of Research – Research Approaches – Research Process – Research Design – Research Methods Vs Research Methodology - Steps in Research – Problem Formulation – Statement of Research Objective – Exploratory – Descriptive – Experimental Research.

Unit 2: METHODS OF DATA COLLECTION

08 Hours

Observational and Survey Methods – Field Work Plan - Administration of surveys - Training field investigators - Sampling methods - Sample size.

Unit 3: TOOLS FOR COLLECTION OF DATA

08 Hours

Questionnaire Design; Attitude measurement techniques – Motivational Research Techniques – Selection of Appropriate Statistical Techniques

Unit 4: STATISTICAL METHODS

16 Hours

Tabulation of data - Analysis of data – drawing Testing of Hypothesis, Advanced techniques – ANOVA, Chi-Square - Discriminant Analysis - Factor analysis Conjoint analysis - Multidimensional Scaling - Cluster Analysis (Concepts Only).

Unit 5: REPORT WRITING

08 Hours

Types of Reports, Business, Technical and Academic Report writing – Methodology Procedure – Contents – Bibliography

SKILL DEVELOPMENT

- Illustrate different types of samples with examples
- Construct a questionnaire for collection of primary data keeping in mind the topic chosen for research
- Narrate your experience using observation technique
- Diagrammatically present the information collected through the questionnaire

BOOKS FOR REFERENCE

- 1) O.R.Krishnaswamy; *Research methodology in Social Sciences*, HPH, 2008.
- 2) R. Divivedi: *Research Methods in Behavior Science*, Macmillan India Ltd., 2001.
- 3) J.K. Sachdeva: *Business Research Methodology* HPH
- 4) Levin & Rubin: *Statistics for Management*, Prentice Hall of India, 2002
- 5) Gupta S; *Research Methodology and Statistical Techniques*, Deep & Deep Publication (P) Ltd., 2002
- 6) Thakur D: *Research Methodology in Social Sciences*, Deep & Deep Publications (P) Ltd.,1998.
- 7) Tripathi P.C: *A Textbook of Research Methodology*, Sultan Chand & Sons, 2002.
- 8) Cooper: *Business Research Methods* 6th edition, MC Graw Hill,
- 9) C.R. Kothari, *Research Methodology*, Vikas Publications
- 10) S.N. Murthy, V. Bhojanna: *Business Research Methods Excel Books*

4.3 MARKETING MANAGEMENT

OBJECTIVE

To enable students to understand the concept of marketing and its applications and also recent trends in Marketing.

Unit 1: INTRODUCTION TO MARKETING

10 Hours

Meaning & Definition – Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing.

Unit 2: MARKETING ENVIRONMENT (MACRO)

10 Hours

Meaning – Demographic – Economic – Natural – Technological – Political – Legal – Socio - Cultural Environment

Unit 3: MARKETING MIX

20 Hours

Meaning – Elements – Product – Product Mix – Product Line – Product Lifecycle – Product Planning – New Product Development – Failure of New Product – Branding – Packing and Packaging. Pricing – Objectives – Factors influencing Pricing Policy and Methods of Pricing. Physical Distribution – Meaning – Factors affecting Channel Selection – Types of Marketing Channels. Promotion – Meaning and Significance of Promotion – Personal Selling & Advertising.

Unit 4: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR

10 Hours

Meaning & Definition – Bases of Market Segmentation – Requisites of Sound Market Segmentation. Consumer Behaviour – Factors influencing Consumer Behaviour and Buying Decision Process.

Unit 5: CUSTOMER RELATIONSHIP MANAGEMENT

05 Hours

Meaning and Definition – Role of CRM – Advantages and Disadvantages

Unit 6: RECENT TRENDS IN MARKETING

05 Hours

Introduction, E-business – Tele-marketing – M-Business – Green Marketing – Relationship Marketing – Retailing – Concept Marketing and Virtual Marketing.

SKILL DEVELOPMENT

- Identify the producer of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

- 1) Philip Kotler - Marketing Management
- 2) Bose Biplab: Marketing Management
- 3) J.C. Gandhi - Marketing Management
- 4) Ramesh & Jayanti Prasad: Marketing Management, I.K. International
- 5) Dr. Ramachandra, Dr. Chandra Shekar, Marketing management .
- 6) Stanton W.J. etzal Michael & Walker, Fundamentals of Management.
- 7) P N Reddy & Appanniah, Marketing Management.
- 8) Sontakki, Marketing Management.
- 9) Vibha & Rekha , Marketing Management
- 10) Bholanath Datta: Marketing management 2nd Edition

4.4 FINANCIAL MANAGEMENT

OBJECTIVE

To enable students to understand the basic concepts of financial management and the role of financial management in decision-making.

Unit 1: INTRODUCTION TO FINANCIAL MANAGEMENT **10 Hours**

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of finance - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of a Sound Financial Planning.

Unit 2: TIME VALUE OF MONEY **10 Hours**

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity)– Doubling Period – Concept of Valuation – Valuation of Bonds & Debentures – Preference Shares – Equity Shares – Simple Problems.

Unit 3: FINANCING DECISION **10 Hours**

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – EBIT – EBT – EPS – Analysis – Leverages – Types of Leverages – Simple Problems.

Unit 4: INVESTMENT DECISION **10 Hours**

Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques – Payback Period – Accounting Rate of Return – Net Present Value – Internal Rate of Return – Profitability Index - Simple Problems.

Unit 5: DIVIDEND DECISION **08 Hours**

Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Types of Dividend Policies in India.

Unit 6: WORKING CAPITAL MANAGEMENT **12 Hours**

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital –Cash Management – Receivables Management – Inventory Management. Working capital finance.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function
- Illustrate operating cycle for at least 2 companies of your choice.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Prepare an aging schedule of debtors with imaginary figures.
- Capital structure analysis of companies in different industries

BOOKS FOR REFERENCE

- 1) S N Maheshwari, *Financial Management*.
- 2) R.M.Srivastava : *Financial Management –Management and Policy*
- 3) Khan and Jain, *Financial Management*.
- 4) Sharma and Sashi Gupta, *Financial Management*.
- 5) M.Gangadhar Rao & Others: *Financial Management*
- 6) I M Pandey, *Financial Management*
- 7) Reddy, Appananih: *Financial Management*.
- 8) Dr. Ramachandra, Dr. Chandrashekar, *Financial Management*.
- 9) Prasanna Chandra, *Financial Management*.
- 10)Sudhindra Bhatt: *Financial Management*.

BOOK REFERENCE

- 1) N.D. Kapoor, *Business Laws*, Sultan chand publications.
- 2) K.R. Bulchandni: *Business Laws*,
- 3) S.C. Sharama & Monica : *Business Law I.K. International*
- 4) K. Aswathappa, *Business Laws*, Himalaya Publishing House,
- 5) K. Ramachandra and others, *Legal Aspects of Business*, Himalaya Publishing House.
- 6) *Tulsion Business Law*
- 7) *Kamashi & Shrikumari, Business Law*
- 8) S.S. Gulshan, *Business Law 3rd Edition*

4.6 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and element of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING 10 Hours

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing – Comparison between Financial Accounting and Cost Accounting – Application of Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts – Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL 15 Hours

Meaning – Types – Direct Material – Indirect Material – Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Setting of Stock Levels – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting – Methods of Pricing Material Issues – FIFO – LIFO – Weighted Average Price Method and Simple Average Price Method.

Unit 3: LABOUR COST CONTROL 10 Hours

Meaning – Types – Direct Labour – Indirect Labour – Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration – Time Rate System – Piece Rate System – Incentive Systems – Halsey plan – Rowan Plan – Taylor's differential Piece Rate System and Merricks differential Piece Rate System – Problems

Unit 4: OVERHEAD COST CONTROL 15 Hours

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption – Machine Hour Rate – Problems.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS 10 Hours

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Classification of costs incurred in the making of a product.
- Identification of elements of cost in services sector.
- Cost estimation for the making of a proposed product.
- Documentation relating to materials handling in a company.
- Collection and Classification of overheads in an organization.
- Developing a case for reconciliation.

BOOKS FOR REFERENCE

- 1) N.K. Prasad: *Cost Accounting*
- 2) J. Made gowda: *Advanced Cost Accounting*
- 3) Gouri Shankar : *Practical Costing*
- 4) Khanna Pandey & Ahuja : *Practical Costing*
- 5) M.L. Agarwal: *Cost Accounting*
- 6) Palaniappan & Harihara : *Cost Accounting I.K. International*
- 7) Jain & Narang: *Cost Accounting*
- 8) S.P. Iyengar: *Cost Accounting*
- 9) S.N. Maheshwari: *Cost Accounting*
- 10) Horngren: *Cost Accounting – A Managerial Emphasis*
- 11) M. N. Arora: *Cost Accounting, HPH*
- 12) K. S. Thakar: *Cost Accounting*

4.7 INDIAN CONSTITUTION

Unit 1:

- a) Framing of the Indian Constitution: Role of the Constituent Assembly.
- b) Philosophy of the Constitution: Objectives, resolution, preamble, fundamental Rights and Duties. Human rights and Environmental protection.

Unit 2:

- a) Special Rights created in the Constitution of Dalits, Backward Classes, Women and Children, and religious and linguistic minorities.
- b) Directive Principles of State policy: The need to balance fundamental rights with directive principles.

Unit 3:

- a) Union Executive: President, Prime Minister and Council of Ministers; powers and functions, coalition Government, problems in their working.
- b) Union Legislature: Lok Sabha and Rajya Sabha, powers and functions. Recent trends in their functioning.

Unit 4:

- a) State Government: Governor, Chief Minister and Council of ministers, Legislature.
- b) Centre – State relations: Political, financial, administrative: Recent Trends.

Unit 5:

- a) Judiciary: Supreme Court, Judicial Review, Writs, Public interest litigations. Enforcing rights through writs.
- b) Emergency provisions (Article 356)

BOOKS FOR REFERENCE

- 1) Srinivasan D - *Indian Constitution*
- 2) D.D. Basu – *Introduction to the Indian Constitution.*
- 3) A.S. Narang – *Indian Constitution, Government and Politics.*
- 4) Nani Palkhivala – *We, the People, UBS Publishers, New Delhi, 1999.*
- 5) A.G. Noorani – *Indian Government and Politics.*
- 6) G.B Reddy : *Constitutional of India, I.K. International*
- 7) J.C. Johari – *Indian Government and Politics Vol. I & II, Vishal, New Delhi.*
- 8) Gran Ville Austin – *The Indian Constitution – Corner stone of a Nation, Oxford, New Delhi, 2000.*
- 9) M.U. Pylee, *Constitutional Government in India.*
- 10) K.K. Ghai, *Indian Constitution.*
- 11) G.N.K Chowdhary, *Indian Constitution.*

5.1 ENTREPRENEURIAL MANAGEMENT

OBJECTIVE

To enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hours

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Differences between Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur – Role of Entrepreneur for Economic Development - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Differences between Manager and Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: ENTREPRENEURSHIP DEVELOPMENT

06 Hours

EDP – Need – Problems – National and State Level Institutions

Unit 3: SMALL SCALE INDUSTRIES

10 Hours

Small Scale Industries - Tiny Industries - Ancillary Industries - Cottage Industries – Definition – Meaning - Product Range - Capital Investment - Ownership Patterns - Importance and Role played by SSI in the development of the Indian Economy - Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's

Unit 4: STARTING A SMALL INDUSTRY

12 Hours

To understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture – location, clearances and permits required, formalities, licensing and registration procedures - Assessment of the market for the proposed project - To understand the importance of financial, technical and social feasibility of the project.

Unit 5: PREPARING THE BUSINESS PLAN (BP)

10 Hours

What is a BP? Why is it important? Who prepares it? Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

Unit 6: IMPLEMENTATION OF THE PROJECT AND SICKNESS IN SSIs

12 Hours

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non-financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates – Role and Types. Sickness: Meaning and definition of a sick industry - Causes of Industrial Sickness - Preventive and Remedial Measures for Sick Industries

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license to the SS Unit, You propose to start.
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasant Desai: *The Dynamics of Entrepreneurship Development and Management*, HPH
2. Mark. J. Dollinger, *Entrepreneurship – Strategies and Resources*, Pearson Edition.
3. Satish Taneja: *Entrepreneur Development*
4. Udai Pareek and T.V. Rao, *Developing Entrepreneurship*
5. S.V.S. Sharma, *Developing Entrepreneurship, Issues and Problems*
6. Srivastava, *A Practical Guide to Industrial Entrepreneurs*
7. Government of India, *Report of the committee on small and medium entrepreneurs, 1975*
8. Vidya Hattangadi ; *Entrepreneurship*
9. N.V.R. Naidu ; *Management and Entrepreneurship, I.K. International*
10. Bharusali, *Entrepreneur Development*
11. Dr. Venkataramanappa, *Entrepreneurial Development*
12. Bholanath Datta: *Entrepreneurship and Management*
13. Anil Kumar : *Small Business and Entrepreneurship*

5.2 COMPUTER APPLICATION IN BUSINESS

OBJECTIVE

The objective of the course is to make the students to understand the concept of information systems used in business and to know the latest trends in doing business in internet environment.

Unit 1: INTRODUCTION TO INFORMATION SYSTEM

10 Hours

Meaning and definition of system, information and information system – business information system – Features of Information system – Uses of Business Information Systems, Users of Information Systems – Components of Business Information Systems.

Unit 2: TYPES OF INFORMATION SYSTEMS

15 Hours

Management Support Systems (MSS), Management Information systems, Transaction Processing systems, Decision Support Systems (DSS), Group Decision Support System (GDSS), Office Automation system, Process Control systems, Executive Information systems, Levels of management and Information systems.

Unit 3: MS OFFICE

15 Hours

MS Word – editing a document- Formatting – Spell Checking – Page setup, Using tabs, Tables and other features Mail Merge, MS Excel – building work sheet- data entry in work sheets, auto fill – working with simple problems- formula – statistical analysis, sort, charts, MS Power point – Design, Side Show – Presentation.

Unit 4: DATABASE MANAGEMENT SYSTEMS

15 Hours

Introduction- Purpose of Database Systems, Views of data, Data Models, Database language, Transaction Management, Storage Management, Database Administrator, Database Users, Overall System Structure, Different types of Database Systems

Unit 5: ACCOUNTING SOFTWARE

05 Hours

Introduction to Tally, Opening new company, Safety of Accounts or Password, Characteristics, Making Ledger Accounts, writing voucher, voucher entry, making different types of voucher, correcting sundry debtors and sundry creditors accounts, preparation of Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

SKILL DEVELOPMENT

Maintain a Record on Practicals.

BOOKS FOR REFERENCE

1. James Obrein, *Management Information Systems*
2. Manjunath, Gundu - *Computer Business Applications*
3. Sudaimuthu & ...: *Computer Applications in Business*
4. Srivatasava : *Enterprise Resource Planning I.K. International*
5. S Sadagopan, *Enterprise resource planning (ERP)*
6. S.P. Rajagopal, *Computer Application in Business*
7. C.S.V.Murthy: *Management Informa*
8. S. Perekar, Anindita Hatva; *Computer Application in Business*

5.3 BANKING REGULATIONS & PRACTICE

OBJECTIVE

To familiarize the students to understand the law and practice of banking.

Unit 1: COMMERCIAL BANKS

08 Hours

Introduction - Role of Commercial Banks - Functions of Commercial Banks - Primary Functions and Secondary Functions - Credit Creation of Commercial Banks - Investment Policy of Commercial Banks - Profitability of Commercial Banks. Regulation and Control of Commercial Banks by RBI

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

12 Hours

Introduction - Meaning of Banker - Customer - Banking Company - General & Special Relationships of Banker and Customer

Unit 3: NEGOTIABLE INSTRUMENTS

10 Hours

Introduction - Meaning & Definition - Features - Kinds of Negotiable Instruments - Promissory Notes - Bills of Exchange - Cheques - Meaning & Definition - Features - Parties - Crossing of cheques - types of crossing. Endorsements - Meaning - Essentials - Kinds of Endorsement.

Unit 4: PAYING BANKER AND COLLECTING BANKER

10 Hours

Paying Banker - Meaning - Precautions - Statutory Protection to the Paying Banker - Dishonor of Cheques - Grounds of Dishonor - Consequences of wrongful dishonor of Cheque.

Collecting Banker - Meaning - Duties & Responsibilities of Collecting Banker - Holder for Value - Holder in Due Course. Statutory Protection to Collecting Banker

Unit 5: TYPES OF CUSTOMERS AND ACCOUNT HOLDERS

10 Hours

Types of Customers and Account Holders - Procedure and Practice in opening and conducting the accounts of customers particularly individuals including minors - Joint Account Holders. Partnership Firms - Joint Stock companies with limited liability-executors and trustees-clubs and associations-joint Hindu family

Unit 6: PRINCIPLES OF BANK LENDING

10 Hours

Sound principles of Bank Lending - Different kinds of borrowing facilities granted by banks such as Loans, Cash Credit, Overdraft, Bills Purchased, Bills Discounted, Letters of Credit, Types of Securities, NPA.

SKILL DEVELOPMENT

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Past specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

- 1) Gordon & Natrajan: *Banking Theory Law and Practice*
- 2) Tannan M.L: *Banking Law and Practice in India.*
- 3) P.Subba Rao ; *Bank Management*
- 4) Sheldon H.P: *Practice and Law of Banking.*
- 5) Kothari N. M: *Law and Practice of Banking.*
- 6) Maheshwari. S.N.: *Banking Law and Practice.*
- 7) Shekar. K.C: *Banking Theory Law and Practice.*
- 8) Gagendra Naidu, S. K. Poddar , *Law and Practice of Banking*
- 9) V. Iyengar; *Introduction to Banking*

5.4 CORPORATE GOVERNANCE

OBJECTIVE

To provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS

10 Hours

Introduction – Meaning - Scope – types of ethics – Characteristics – Factors influencing Business ethics – importance of business ethics - Arguments for and against business ethics- basics of business ethics - corporate social responsibility – issues of management – crisis management

Unit 2: PERSONAL ETHICS

10 Hours

Introduction – Meaning – Emotional Honesty – Virtue of humility – promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT

10 Hours

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS

10 Hours

Meaning – functions – impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE

10 Hours

Meaning, scope, composition of BODs, Cadbury Committee, various committee, reports on corporate governance, scope of CG, Benefits and Limitations of CG with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

- 1) H.R.Machiraju: Corporate Governance
- 2) N.M.Khandelwal : Indian Ethos and Values for Managers
- 3) S Prabhakaran; Business ethics and Corporate Governance
- 4) R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
- 5) B O B Tricker, Corporate Governance; Principles , Policies and Practices
- 6) Murthy CSV: Business Ethics and Corporate Governance
- 7) Michael, Blowfield; Corporate Responsibility
- 8) Andrew Crane; Business Ethics
- 9) Ghosh; Ethics in Management and Indian ethos.
- 10)C.V. Badi: Corporate Governance

5.5 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this course is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

Unit 1: INTRODUCTION TO MANAGEMENT ACCOUNTING **08 Hours**

Meaning – Definition – Objectives – Nature and Scope of Management Accounting – Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Unit 2: FINANCIAL STATEMENTS **12 Hours**

Analysis of financial statements – comparative statements, comparative income statement, comparative Balance sheet – common size statements – Common size income statement, common size balance sheet – Trend percentages. Reporting to management – management decision and analysis.

Unit 3: RATIO ANALYSIS **12 Hours**

Meaning and Definition of Ratio, Accounting Ratio and Ratio Analysis – Uses – Limitations – Classification of Ratios – Problems on Ratio Analysis - Preparation of Trading and Profit & Loss Account and Balance Sheet with the help of Accounting Ratios

Unit 4: FUND FLOW ANALYSIS **10 Hours**

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Procedure of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operation – Statement of Sources and Application of Funds – Problems.

Unit 5: CASH FLOW ANALYSIS **10 Hours**

Meaning and Definition of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS-3 – Procedure of Cash Flow Statement – Concept of Cash and Cash Equivalents - Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to AS-3 (Indirect Method Only).

Unit 6: CVP ANALYSIS AND BUDGETORY CONTROL **10 Hours**

Introduction – Meaning and Definition of Marginal Cost & Marginal Costing – Features – Cost Volume Profit Analysis – Assumptions – Uses – Contribution – P/V Ratio – Break Even Point – Margin of Safety – Angle of Incidence – Break Even Chart – Problems – BUDGETORY CONTROL: Introduction – Meaning & Definition of Budget and Budgetary

Control – Objectives of Budgetary Control – Classification of Budgets – Flexibility
Classification – Functional Budgets – Problems on Flexible Budgets and Cash Budgets.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari, Management Accounting
2. Sexana, Management Accounting
3. J. Made Gowda: Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. Jawahar Lal : Essentials of Managerial Accounting
6. B.S. Raman, Management Accounting
7. Dr. Ramachandra, Dr. Chandra Shekar & Shivarudrappa ; Management Accounting
8. Sharma and Gupta, Management Accounting
9. PN Reddy & Appanaiah, Essentials of Management Accounting.
10. Sudhindra Bhatt; Management Accounting

6.1 INTERNATIONAL BUSINESS

OBJECTIVE

The objective of this course is to facilitate the students in understanding of International Business in a multi cultural world.

Unit 1: INTRODUCTION TO INTERNATIONAL BUSINESS

8 Hours

Meaning and Definition of International Business – Theories of International Trade – Economic Theories – Forms of International Business - Nature of International Business

Unit 2: MODE OF ENTERING INTERNATIONAL BUSINESS

12 Hours

Mode of Entry – Exporting – Licensing – Franchising – Contract Manufacturing – Turn Key Projects – Foreign Direct Investment – Mergers, Acquisitions and Joint Ventures – Comparison of different modes of Entry.

Unit 3: GLOBALIZATION

12 Hours

Meaning and Definition - Features – Stages – Stages of Markets Production – Investment and Technology Globalization – Advantages and Disadvantages – Methods and Essential Conditions for Globalization.

Unit 4: MNCs AND INTERNATIONAL BUSINESS

10 Hours

Definitions – Distinction among Indian Companies – MNC – Global Companies and TNC – Organizational Transformations – Merits and Demerits of MNC's in India.

Unit 5: INTERNATIONAL MARKETING INTELLIGENCE

8 Hours

Information required – Source of Information – International Marketing Information System and Marketing Research.

Unit 6: EXIM TRADE

10 Hours

Export Trade, Procedure, Steps & Documentation Direction of India's Trade – Export Financing – Document Related to Export Trade – Export Marketing – Import Trade,

Procedure, Steps, Documentations and Problems - EXIM Policy - Balance of Payment - Disequilibrium and Measures for Rectification - Institutions connected with EXIM Trade.

SKILL DEVELOPMENT

- List any three MNC's operating in India along with their products or services offered.
- Prepare a chart showing currencies of different countries
- Tabulate the foreign exchange rate or at least 2 countries for 1 month
- Collect and Paste any 2 documents used in Import and Export trade.

BOOKS FOR REFERENCE

- 1) *Dr. Aswathappa International Business*
- 2) *P. Subba Rao - International Business - HPH*
- 3) *Francis Cherunilam; International Business, Prentice Hall of India*
- 4) *Mahua Dutta, International Business, I.K. Intl*
- 5) *Dr. Ramachandra, Dr. Chandrashekar, International Business*
- 6) *J. Maskeri- International Business*
- 7) *Shyam Shukla; International Business*
- 8) *Rosy Joshi; International Desmoch*

6.2 E-BUSINESS

Objective: To expose the students to electronic modes of commercial operations.

UNIT 1. E-BUSINESS

15 Hours

Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/ Disadvantages of e-commerce, web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. Hardware and Software for E-Business

10 Hours

Web server hardware and software – software for web servers, Website and internet utility programs, Web server hardware, web hosting choices – electronic commerce software – shopping cart.

UNIT 3. SECURITY FOR E-BUSINESS

10 Hours

Security threats – an area view – implementing E-commerce security – encryption – Decryption, Protecting client computers E-Commerce Communication channels and web servers Encryption, SSL protocol, Firewalls, Cryptography methods, VPNs, protecting networks, policies and procedures

UNIT 4. E-PAYMENTS

10 Hours

E-payment systems – an overview. B to C payments, B to B payments. Types of E-payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, agile wallet, smart cards and digital cheques. Secure Electronic Transaction (SET) protocol

UNIT 5. E-BUSINESS MARKETING TECHNOLOGIES

10 Hours

E-Commerce and marketing B to B and B to C marketing and branding strategies. Web transaction logs, cookies, shopping cart database, DBMS, SQL, data mining, CRM (customer relationship Management) system – permission marketing, affiliate marketing, viral marketing.

UNIT 6. Cyber Laws

05 Hours

Legal Aspects of E-Business, Internet frauds – cyber laws. IT Act 2000 salient features.

SKILL DEVELOPMENT

- Visit Few Business Websites and note down in Practical Record Book

REFERENCE BOOKS

1. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison
2. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
3. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
4. Agarwala and Ararwala : *Business on the Net – Bridge to the online store front*,
5. Murthy CSV: *E. Commerce Himalaya Publishing House Pvt.Ltd.*
6. Diwan, Prag and Sharma, *Electronic Commerce – A manager guide to E-business*,
7. Janal D.S : *Online Marketing Hand book*. Van Nostrand Reinhold Network
8. Kosiur David, *Understanding Electronic Commerce Microsoft, press Washing-ton.*
9. Minoli and Minol, *Web Commerce Technology Handbook, TMH New Delhi.*
10. Schneider Gary P, *Electronic Commerce course Technology Delhi.*
11. Young Margaret Levine: *The complete reference to Internet, TMH.*
12. C.S.Rayudu: *Ecommerce and E Business*
13. Kalakota Ravi: *E-business 2: Road map for success.*
14. Kalkota Ravi. *Electronics Commerce: A managers Guide.*
15. P. Diwan, S. Sharma; *E-Commerce*

6.3 INCOME TAX

OBJECTIVE

The Objective of this course is to expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.

Unit 1: INTRODUCTION TO INCOME TAX

5 Hours

Brief History of Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions – Assessment – Assessment Year – Previous Year – Exceptions to the general rule of Previous Year - Assessee – Person – Income - Casual Income – Gross Total Income – Agricultural Income

Unit 2: RESIDENTIAL STATUS

5 Hours

Residential Status of an Individual – Resident – Not Ordinarily Resident – Non-resident – Determination of Residential Status – Incidence of Tax – Problems on Scope of Total Income.

Unit 3: EXEMPTED INCOMES

5 Hours

Introduction – Exempted Incomes U/S 10 (Restricted to Individual Assessee).

Unit 4: INCOME FROM SALARY

15 Hours

Meaning – Basis of Charge – Advance Salary – Arrears of Salary - Definitions – Salary Allowances – Fully Taxable Allowances – Partly Taxable Allowances – Fully Exempted Allowances – Perquisites – Tax Free Perquisites – Taxable Perquisites – Perquisites Taxable in all Cases – Perquisites Taxable in Specified Cases – Profits in Lieu of Salary – Provident Fund – Transferred Balance – Deductions from Salary U/S 16 – Problems on Income from Salary

Unit 5: INCOME FROM HOUSE PROPERTY**10 Hours**

Basis of Charge – Deemed Owners – Exempted Incomes from House Property – Treatment of Composite Rent – Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property

Unit 6: PROFITS AND GAINS FROM BUSINESS AND PROFESSION**15 Hours**

Meaning and Definition of Business, Profession – Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis – Problems on Business relating to Sole Trader only and Problems on Profession relating to Chartered Accountant, Advocate and Doctor.

Unit 6: CAPITAL GAINS (Theory only).**UNIT 7: INCOME FROM OTHER SOURCES (theory only).****UNIT 8: COMPUTATION OF GTI.****5 Hours****SKILL DEVELOPMENT**

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.
- Chart on perquisites.
- List of enclosures to be made along with IT returns (with reference to salary and house property incomes)

BOOKS FOR REFERENCE

- 1) *Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.*
- 2) *B.B. Lal: Direct Taxes, Konark Publisher (P) Ltd.*
- 3) *Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.*
- 4) *Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.*
- 5) *Gaur & Narang: Income Tax.*

6.4 STRATEGIC MANAGEMENT

Objective: The Objective of this course is to expose the students to the various strategic issues such as strategic planning, implementation and evaluation etc.

Unit 1: INTRODUCTION TO STRATEGIC MANAGEMENT **10 Hours**

Introduction - Meaning and Definition - Need - Process of Strategic Management - Strategic Decision Making - Business Ethics - Strategic Management.

Unit 2: ENVIRONMENTAL APPRAISAL **12 Hours**

The concept of Environment - The Company and its Environment - Scanning the Environment, Technological, Social, Cultural, Demographic, Political, Legal and Other Environments Forces. SWOT Analysis - Competitive Advantage - Value Chain Analysis.

Unit 3: STRATEGIC PLANNING **13 Hours**

Strategic Planning Process - Strategic Plans during recession, recovery, boom and depression - Stability Strategy - Expansion Strategy - Merger Strategy - Retrenchment Strategy - Restructures Strategy - Levels of Strategy - Corporate Level Strategy - Business Level Strategy and Functional Level Strategy - Competitive Analysis - Porter's Five Forces Model.

Unit 4: IMPLEMENTATION OF STRATEGY **15 Hours**

Aspects of Strategy Implementation - Project Manipulation - Procedural Implementation - Structural Implementation - Structural Considerations - Structures for Strategies - Organizational Design and Change - Organizational Systems. Behavioral Implementation - Leadership Implementation - Corporate Culture - Corporate Policies and Use of Power. Functional and Operational Implementation - Functional Strategies - Functional Plans and Policies. Financial - Marketing - Operational and Personnel dimensions of Functional Plan and Policies - Integration of Functional Plans and Policies.

Unit 5: STRATEGY EVALUATION **10 Hours**

Strategy Evaluation and Control - Operational Control - Overview of Management Control - Focus on Key Result Areas.

SKILL DEVELOPMENT

- Present a chart showing Strategic Management Process.
- Select any organization and undertake SWOT analysis.
- Present strategy followed by an FMCG company in Indian Market.
- Select any sector and make competitive analysis using Porter's five forces model.
- List social responsibility action initiated by any one company.
- Select any organization and identify the Key Result Areas

BOOKS FOR REFERENCE

1. Charles W.L Hill and Gareth R. Jones, *Strategic Management an Integrated Approach*
2. Dr. Aswathappa, *Business Environment for Strategic Management*
3. Azhar Kazmi, *Business Policy and Strategic Management*
4. Subbarao: *Business Policy and Strategic Management*
5. Ghosh P.K., *Business Policy and Strategic Planning and Management.*
6. Pillai, *Strategic Management*
7. Lawrence, *Business Policy and Strategic Management.*
8. C. Appa Rao; *Strategic Management and Business Policy*
9. Sathyashekar : *Business Policy and Strategic Management.*

FINANCE GROUP

5.6 ADVANCED FINANCIAL MANAGEMENT

OBJECTIVE

To familiarize the students with Advance Financial Management decisions.

Unit 1: INVESTMENT DECISIONS AND RISK ANALYSIS

12 Hours

Risk Analysis – Types of Risks – Risk and Uncertainty – Techniques of Measuring Risks – Risk adjusted Discount Rate Approach – Certainty Equivalent Approach – Sensitivity Analysis – Probability Approach – Standard Deviation and Co-efficient of Variation – Decision Tree Analysis – Problems.

Unit 2: COST OF CAPITAL

12 Hours

Meaning and Definition – Significance of Cost of Capital – Types of Capital – Computation of Cost of Capital – Specific Cost – Cost of Debt – Cost of Preference Share Capital – Cost of Equity Share Capital – Weighted Average Cost of Capital – Problems.

Unit 3: CAPITAL STRUCTURE THEORIES

12 Hours

Introduction – Capital Structure – Capital Structure Theories - Net Income Approach - Net Operating Income Approach - Traditional Approach – MM Approach – Problems.

Unit 4: DIVIDEND THEORIES

10 Hours

Introduction – Irrelevance Theory – MM Model. Relevance Theories - Walter Model - Gordon Model – Problems on Dividend Theories.

Unit 5: PLANNING AND FORECASTING OF WORKING CAPITAL

10 Hours

Concept of Working Capital – Determinants of Working Capital – Estimating Working Capital Needs – Operating Cycle – Cash Management – Motives of Holding Cash – Cash Management Techniques – Preparation of Cash Budget – Receivables Management – Preparation of Ageing Schedule and Debtors Turnover Ratio – Inventory Management Techniques – Problems on EOQ.

UNIT 6: CORPORATE VALUATION

04 hours

DCF method, relative valuation method, net asset method, value based management.

SKILL DEVELOPMENT

- Preparation of a small project report of a small business concern covering all components- (Finance, Marketing, Production, Human Resources, General administration) (Any one component can be selected as a title of the report)
- Designing a capital structure for a Trading concern
- Preparing a blue print on working capital of a small concern.
- Prepare a chart on Modes of cash budget.
- List out different modes of Dividend Policy.
- List out the Companies, which have declared dividends recently along with the rate of dividend.

BOOKS FOR REFERENCE

1. Narendra Singh : Advanced Financial Management
2. S N Maheshwari, Financial Management Principles and Practice.
3. Khan and Jain, Financial Management.
4. Sudarshan Reddy: Advance Financial Management
5. Sharma and Sashi Gupta, Financial Management.
6. I M Pandey, Financial Management.
7. Prasanna Chandra, Financial Management.
8. PV Kulkarni & BG Sathya Prasad, Financial Management.
9. P.K. Sinha; Financial Management

5.7 FINANCIAL MARKETS & SERVICES

OBJECTIVE

To familiarize the students with Traditional and Modern Financial Services.

Unit 1: FINANCIAL MARKETS

12 Hours

Primary Market - Meaning - Features - Players of Primary Market - Instruments in Primary Market (Names) - Procedure for issuing Equity and Debentures - SEBI guidelines towards the issue of Equity Shares and Debentures - Merits and Demerits of Primary Markets. Secondary Market - Meaning - Structure - Functions - Trading and Settlement System of Stock Exchange Transactions - Players in the Stock Market - Merits and Demerits of Stock Markets - Reforms in Stock Market - OTCEI and NSE - Origin - Function - Merits - Demerits.

Unit 2: NON-BANKING FINANCIAL INTERMEDIARIES

12 Hours

Investment & Finance Companies - Merchant Banks - Hire Purchase Finance - Lease Finance - Housing Finance - Venture Capital Funds and Factoring.

Unit 3: SEBI

12 Hours

Objectives of SEBI - Organization - Functions and Functioning of SEBI - Powers of SEBI - Role of SEBI in marketing of Securities and Protection of Investor Interest.

Unit 4: MUTUAL FUNDS

14 Hours

Concept of Mutual Funds - Growth of Mutual Funds in India - Mutual Fund Schemes - Money Market Mutual Funds - Private Sector Mutual Funds - Evaluation of the performance of Mutual Funds - Functioning of Mutual Funds in India.

Unit 5: RECENT TRENDS IN FINANCIAL SERVICES

10 Hours

Personalized Banking - ATM - Tele-banking & E-banking - Credit & Debit Card - Customization of Investment Portfolio - Financial Advisors.

SKILL DEVELOPMENT

- Collection of Share certificate / debenture certificate.
- Chart showing modus operandi of leasing - hire purchase procedures.
- Collect any specimen of new Financial Instruments and record the same.
- Select any Mutual Fund and examine the various closed and open-ended schemes offered.
- Visit any Housing Finance Companies and analyse the features of various financing schemes offered.

BOOKS FOR REFERENCE

1. Vasant Desai : *Financial Markets & Financial Services*, Himalaya Publishing House.
2. Meir Kohn: *Financial Institutions and Markets*, Tata McGraw Hill
3. L M Bhole: *Financial Institutions and Markets*, Tata McGraw Hill
4. E Gardon & K Natarajan: *Financial Markets & Services*
5. V.A. Avadhani : *Financial Services in India*.
6. R.M. Srivastava / D. Nigam; *Dynamics of Financial Markets & Institutions in India*

6.5 INVESTMENT & PORTFOLIO MANAGEMENT

Unit 1: INTRODUCTION TO INVESTMENT MANAGEMENT

12 Hours

Meaning of Investment – Selection of Investment – Classification of Securities – Risk and Uncertainty – Types of Risks – Risk and Expected Return – Measurement of Portfolio Risk – Benefits of Diversification – Investment Strategies – Types of Companies and Stocks – Matrix approach in Investment Decision – Investment Avenues

Unit 2: SECURITY ANALYSIS

14 Hours

Introduction – Fundamental Analysis – Economic Analysis – Industry Analysis – Company Analysis. Technical Analysis – Dow Theory – Advanced Declined Theory – Chartism Assumptions of Technical Analysis.

Unit 3: MODERN PORTFOLIO THEORY

12 Hours

Introduction – Mean – Variance Model – Markowitz Model – Sharpe single index model – Capital Market Line – Market Portfolio – Capital Asset Pricing Model – Security Market Line – Beta Factor – Alpha and Beta Coefficient – Arbitrage Pricing Model.

Unit 4: PORTFOLIO EVALUATION

10 Hours

Sharpe's measure, Jensen's measure, Treynor's measure.

Unit 5: GLOBAL MARKETS

12 Hours

Global Investment Benefits – Introduction to ADRs, GDRs, FCCBs, Foreign Bonds, Global Mutual Funds – Relationship between Trends in Global Markets and the Domestic Markets

BOOKS FOR REFERENCE

1. Preeti Singh: *Investment Management*
2. Kevin, *Investment and Portfolio Management*
3. A.P. Dash : *Security Analysis and Portfolio Management, I.K. International*
4. Prasanna Chandra, *Investment Analysis and Portfolio Management, Mcgraw-Hill*
5. Fischer and Jordan, *Security Analysis and Portfolio Management, Prentice Hall*
6. Avadhani, *Investment Analysis and Portfolio Management, HPH*
7. Punithavathy, Pandian, *Investment Analysis and Management.*
8. Sudhindra Bhatt; *Security Analysis and Portfolio Management.*

6.6 STOCK AND COMMODITY MARKETS

Objective: To provide students with a conceptual framework of stock markets and commodity markets, functionalities in these markets and their mode of trading.

1. AN OVERVIEW OF CAPITAL AND COMMODITY MARKETS: 10 Hours

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of commodity and Commodity markets, difference between stock market and commodity market.

2. STOCK MARKET:

12 Hours

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE BSE and Nifty), Derivatives on stocks: meaning, types (in brief).

3.

4. TRADING IN STOCK MARKET:

14 Hours

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd. (NSDL) Central Securities Depository Ltd. (CSDL) (in brief).

5. COMMODITY MARKET: 14 Hours
Evolution, Commodity derivatives, Commodity exchanges-Regional & National and International, Functions objectives and types, Role. Types of transactions in Commodity market – Spot, Future and Forward options markets.

6. TRADING IN COMMODITY MARKETS: 10 Hours
Patterns of Trading & Settlement, Price discover, Efficiency of Commodity Markets - Size of Commodity Markets in India - Benefits of Commodity Markets.

Reference Books:

1. *Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.*
2. *Srivastava RM : Management of Financial Institutions, HPH*
3. *Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.*
4. *Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill*
5. *Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York*
6. *Pallavi Modi: Equity – The Next Investment destination.*
7. *Avadhani (2010) Financial Markets and Services, Himalaya Publishers*
8. *Bharat Kulkarni; Commodity Markets and Derivatives*

MARKETING GROUP

5.6 CONSUMER BEHAVIOR

Unit 1: INTRODUCTION 8 Hours
Introduction to Consumer Behaviour - A managerial & consumer perspective; why study consumer behaviour? ; Applications of consumer behaviour knowledge; current trends in Consumer Behaviour; Market segmentation & consumer behaviour.

Unit 2: INDIVIDUAL DETERMINANTS OF CONSUMER BEHAVIOUR 14 Hours
Consumer needs & motivation; personality and self-concept; consumer perception; learning & memory; nature of consumer attitudes; consumer attitude formation and change.

Unit 3: ENVIRONMENTAL DETERMINANTS OF CONSUMER BEHAVIOUR 12 Hours
Family influences; the influence of culture; subculture & cross cultural influences; group dynamics and consumer reference groups; social class & consumer behaviour.

Unit 4: CONSUMER'S DECISION MAKING PROCESS 8 Hours
Problem recognition; Search & Evaluation; Purchase processes; Post-purchase behaviour; personal influence & opinion leadership process; diffusion of innovations; Models of Consumer Behaviour; Researching Consumer behaviour; consumer research process.

Unit 5: CONSUMER SATISFACTION & CONSUMERISM 8 Hours
Concept of Consumer Satisfaction; Working towards enhancing consumer satisfaction; sources of consumer dissatisfaction; dealing with consumer complaint. Concept of consumerism; consumerism in India; the Indian consumer; Reasons for growth of consumerism in India; Consumer protection Act 1986.

SKILL DEVELOPMENT:

- Conduct an informal interview of a local retail store owner and determine what demographic and socio economic segments the store appears to satisfy. How did the owner select this segment or segments?
- Conduct formal interview to the managers of three retail-clothing stores. Determine the degree to which they believe consumer's personality and self-image are important to the marketing activities of the stores.
- Visit three local restaurants and assess how each attracts clientele in different stages of the family life cycle.
- You are the owner of two furniture stores, one catering to upper-middle class consumers and the other to lower-middle class consumers. How do social class differences influence each store's
 - Product lines & styles
 - Advertising media selection
 - The copy & communication styles used in the advertisements
 - Payment policies
- For each of the following Products & services, indicate who you would go to for information and advice;
 - The latest fashion in clothes
 - Banking
 - Air travel
 - Vacation destinations
 - A personal computer
- For each situation; indicate the person's relationship to you and your reasons for selecting him/her as the source of information and advice.

REFERENCE BOOKS:

- 1) Leon. G. Schiffman & Leslve Lazer kanuk; *Consumer behaviour*; 6th Edition; PHI, New Delhi, 2000.
- 2) Suja.R.Nair, *Consumer behaviour in Indian perspective*, First Edition, Himalaya Publishing House, Mumbai, 2003.
- 3) David. L. Loudon & Albert J. Bitta; *Consumer Behaviour*; 4th Edition, Mcgraw Hill, Inc; New Delshi, 1993.
- 4) Assael Henry; *Consumer behaviour and marketing action*; Asian Books(P) Ltd, Thomson learning, 6th Edition; 2001.
- 5) Jay D. Lindquist & M. Joseph Sirgy, *Shopper, Buyer and Consumer Behaviour*, 2003.
- 6) Blackwell; *Consumer Behaviour*, 2nd Edition.
- 7) S.A.Chunawalla : *Commentary on Consumer Behaviour*.
- 8) Sontakki; *Consumer Behaviour*.
- 9) Schiffman; *Consumer Behaviour*.
- 10)Batra/Kazmi; *Consumer Behaviour*.

5.7 ADVERTISING & MEDIA MANAGEMENT

Unit 1: INTRODUCTION & BASIC CONCEPTS

10 Hours

History of advertising; Advertising purpose and functions; Economic, social & ethical aspects of advertising; Advertising & the marketing mix, Advertising as a communication process; types of advertising; Major Institutions of advertising management.

Unit 2: ADVERTISING AND CAMPAIGN PLANNING

8 Hours

Marketing strategy & situation analysis; Advertising plan; Advertising objectives; DAGMAR approach; advertising strategy; Advertising campaign-planning process.

Unit 3: CREATIVE STRATEGY & ADVERTISING BUDGET

12 Hours

Creative approaches; the art of copywriting; Advertising copy testing; creativity in communication, motivational approaches & appeals, advertising budget process; methods of determining advertising appropriations.

Unit 4: ADVERTISING MEDIA STRATEGY

10 Hours

Role of media; types of media; their advantages and disadvantages; media research & advertising decisions; media planning, selection & scheduling strategies.

Unit 5: ADVERTISING EFFECTIVENESS & ORGANISING ADVERTISING FUNCTIONS.

10 Hours

Methods of measuring advertising effectiveness; advertising research; structure & functions of an advertising agency; selection & co-ordination of advertising agency; Advertising regulations; Internet advertising.

SKILL DEVELOPMENT:

- Sketch the competitive position for the development of an advertising plan for Sahara Airlines & Tata Telephones.
- Define the advertising objectives on DAGMAR Approach for any product of your choice.
- By selecting an appropriate theme & appeal, create & enact an advertisement for a range of any established products. For this purpose, the class should be divided into groups and formal presentations have to be evaluated.
- Select two print & electronic media for the purpose of understanding the functions of advertising media. Comparative analysis of the same should be done & short reports must be prepared.
- Get into the exciting world of internet / Net advertising and identify the message content of 10 products / Services of your choice.

REFERENCE BOOKS:

- 1) *Rajeev Batra, John.G.Myers.T.David.A.Aaker; Advertising Management; 5th Edition, PHI Edition, New Delhi, 1998.*
- 2) *Jeffkins & Yadin; Advertising, 4th Edition; Pearson Education, New Delhi, 2000.*
- 3) *Manendra Mohan; Advertising Management - Concepts & Cases; Tata McGraw Hill Publishing company Ltd, New Delhi 2001.*
- 4) *S.A.Chunnawalia & K.c.Sethia Foundations of Advertising - Theory & Practice, Himalaya Publishing House, 2002.*
- 5) *Sonatakki, Advertising.*
- 6) *Wells, Advertising.*
- 7) *Rayudu: Media and Communication Management*
- 8) *Kazmi/Batra; Advertising & Sales promotion 3rd Edition*

6.5 BRAND MANAGEMENT

OBJECTIVE

To enable the students to acquire skills in Product & Brand Management.

Unit 1: PRODUCT MANAGEMENT

05 Hrs

Meaning of Product – Product Personality, Types of Products – Product Line, Product Mix.

Unit 2: PRODUCT DEVELOPMENT

12 hrs

Factors influencing design of the product – Changes affecting product management – Developing Product Strategy; Setting objectives & alternatives, Product strategy over the lifecycle, Customer analysis, Competitor analysis, Design of manufacture. New product development – Product Differentiation and Positioning strategies. Failure of New Product.

Unit 3: MARKET POTENTIAL & SALES FORECASTING

12 hrs

Forecasting target market potential and sales – Methods of estimating market and sales potential, Sales forecasting, planning for involvement in international market.

Unit 4: BRAND MANAGEMENT

12 hrs

Meaning of Brand – Brand Development: Extension, Rejuvenation, Re launch- Product Vs Brands, Goods and services, Retailer and distributors, People and organization, Brand challenges and opportunities, The brand equity concept, Identity and Image.

Unit 5: BRAND LEVERAGING AND BRAND PERFORMANCE

12 hrs

Establishing a brand equity management system, measuring sources of brand equity and consumer mindset, Co-branding, celebrity endorsement. Brand Positioning & Brand Building – Brand knowledge, Brand portfolios and market segmentation – Steps of brand building, Identifying and establishing brand positioning, Defining and establishing brand values.

Unit 6: DESIGNING & SUSTAINING BRANDING STRATEGIES

07 hrs

Brand hierarchy, Branding strategy, Brand extension and brand transfer – Managing brand over time.

BOOKS FOR REFERENCE

- 1) Gupta SL: Brand Management
- 2) Branding Concepts- Pati, Debashish
- 3) Brand Building : M.Bhattacharjee
- 4) Brand Positioning Strategies for Competitive Advantage- Subrato Sengupta
- 5) The New Strategic Brand Management- Kapferer, Jean-Noel
- 6) Brand Management Perspectives and Practices- Das, Naveen
- 7) Total Brand Management: An Introduction- Chaturvedi, B.M
- 8) Brand Management Financial Perspectives- Ray
- 9) Harsh V. Verama; Brand Management

6.6 RETAIL MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAILING

12 Hrs

Definition – functions of retailing – types of retailing – forms of retailing based on ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retailing in India – Influencing factors – present Indian retail scenario. Retailing from the International perspective

Unit 2: CONSUMER BEHAVIOUR IN THE RETAIL CONTEXT

12 Hrs

Buying decision process and its implication to retailing – influence of group and individual factors. Customer shopping behaviour Customer service satisfaction. Retail planning process – Factors to consider – Preparing a complete business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS

12 Hrs

Choice of Store location – Influencing - Factors Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Store Layout and visual merchandising – Store designing – space planning. Retail Operations: Inventory management – Merchandise Management – Category Management.

Unit 4: RETAIL MARKETING MIX

12 Hrs

Retail marketing mix – an Introduction. Retail marketing mix: Product – Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Retail marketing mix: Pricing – Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Retail marketing mix: Place – Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Retail marketing mix: Promotion – Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal.

Unit 5: IMPACT OF IT IN RETAILING

12 Hrs

Non store retailing The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing. Social issues in retailing. Ethical issues in retailing.

BOOKS FOR REFERENCE

- 1) Barry Bermans and Joel Evans, "Retail Management – A Strategic Approach", 8th edition, PHI private limited, Newdelhi, 2002.
- 2) Suja Nair: Retail Management
- 3) A.J.Lamba, "The Art of Retailing", 1st edition, Tata McGrawHill, Newdelhi, 2003.
- 4) Retailing Management by Swapna Pradhan, 2/e, 2007 & 2008, TMH
- 5) Integrated Retail Management by James R. Ogden & Denise T.
- 6) Ogden, 2007, Biztantra
- 7) R.S.Tiwari : Retail Management , HPH
- 8) Araif Sakh: Retail Management
- 9) Retail Management – Levy & Weitz-TMH 5th Edition 2002
- 10) Retail Management by Rosemary Varley, Mohammed Rafiq-
- 11) Retail Management by Chetan Bajaj-Oxford Publication.
- 12) Retail Management by Uniyal & Sinha-Oxford Publications.
- 13) A. Siva Kumar; Retail Marketing.

INTERNATIONAL BUSINESS GROUP

5.6 INTERNATIONAL MARKETING MANAGEMENT

UNIT – 1: INTERNATIONAL MARKETING

8 hours

Meaning – Reasons and Motives for International marketing – International Marketing Decisions – Scope of marketing Indian products abroad.

UNIT – 2: NATURE AND SCOPE OF INTERNATIONAL MARKETING

8 hours

Features of International Marketing – Need for international Trade – International Marketing Environment - The basis of International Trade - Theory of comparative cost - Modern Theories - Tariff and Non-Tariff barriers - WTO and its impacts.

UNIT – 3: INTERNATIONAL MARKETING INTELLIGENCE

6 hours

Requirement and Sources of Information's – systems and marketing research – Problems in International Marketing research.

UNIT – 4: FEATURE OF INTERNATIONAL MARKETING

10 Hours

Special features of International Marketing

Identifying foreign market product scanning for exports. Export distribution and channels packaging: Overseas market research pricing.

UNIT-5. INTERNATIONAL PRODUCT DECISIONS AND PRICING

16 Hours

International Product Decisions. Product, Product mix, Branding, Packaging Labelling and Product Communication Strategies. Exporters cost and Pricing Objectives – methods and Approaches and Steps – transfer pricing – dumping – Information Requirements for pricing.

UNIT – 6: INTERNATIONAL DISTRIBUTION AND PROMOTION

12 Hours

International channels System – Direct and Indirect Exports – Distributions Strategies and International logistics.

Marketing Environment and promotion Strategy – International marketing Communication mix – export promotion Organization trade Fair and Exhibitions – Problems in International Marketing.

SKILL DEVELOPMENT:

- Understand the role of WTO in International Marketing.
- Report form the literature available in business magazines about International Product promotion adopted by business units in India.
- From the magazine try to acquire conceptual clarity on transfer pricing and dumping.
- Visit any institution responsible for export promotion and evaluate the functioning with reference to defined objectives.

BOOKS FOR REFERENCE:

1. Francis Cherunilum, *International Marketing*.
2. B.L. Varshney and B. Bhattacharya, *International Marketing management*.
3. P.G.Apte, *International Financial Management*.
4. Somanatha : *International Financial Management*, I.K. International
5. Mohd. Akbar ali Khan : *International Trade and Finance*
6. Philip R. Cateoria, *International Marketing*.
7. B.S. Rathore & J.S. Rathore, *International Marketing Management*.
8. M.L. Verma, *Foreign Trade and Management in India*.
9. Dana – Nicoleta Lasclu, *International Marketing, Biztantra*.
10. Srivasthava, *International Marketing*.
11. P.K. Vasudeva: *International Marketing, Excel Books*

5.7 INTERNATIONAL FINANCIAL MANAGEMENT

UNIT – 1: International Finance:

8 Hours

Introduction; Meaning of International Finance; Issues involved in International business & Finance; Currency to be used; Credit worthiness; Methods of Payment; Foreign Exchange Markets.

UNIT – 2: International Financial Management:

10 Hours

Meaning of International Financial Management; Scope and significance of International financial management in international markets.

UNIT – 3: Foreign Exchange rates:

12 Hours

Need for foreign exchange; Foreign exchange market and Market intermediaries; Exchange rate determination; Foreign Exchange risk - Forwards, futures, swaps, options, Valuation of future and swaps- valuation of options and efficiency of the exchange market; Convertibility of a rupee and its implications.

UNIT – 4: International Financial Markets:

10 Hours

Foreign Institutional Investors- Regulations governing Foreign Institutional Investors in India; Global Depository Receipts - Meaning; Foreign Direct investment (FDI) – growth of FDI; Advantages and Disadvantages of FDI to Host country and home country.

UNIT– 5: International Risk Management:

8 Hours

Types of Risk – Political, commercial, exchange control restrictions on remittances, differing tax system, sources of funds, exchange rate fluctuations, different stages and rates of inflation, risks of non-payment; Managing Risk. Internal and external technologies.

SKILL DEVELOPMENT:

- Visit any authorized dealers establishment and understand the activities of dealing room
- Analyse the trend of FDI into India during the preceding five years.

BOOKS FOR REFERENCE:

1. Avadhani: *International Financial Management*
2. Mittal, *International Rate Foreign Exchange Tariff policy*
3. Venkataraman K.V, *Finance of Foreign Trade and Foreign Exchange*
4. Genaro C da costa; *International Trade and Payments*
5. Chowdery, *Finance of Foreign Trade and Foreign Exchange*
6. Balachandran, *Foreign Exchange.*
7. Somanath : *International Financial Management, I.K. International*
8. Srivastava, *International Finance.*
9. Madhu Vij; *International Financial Management 3rd Edition.*

6.5 INTERNATIONAL HRM

UNIT – 1: Globalization and Human Resource Management- 10 Hours
Introduction – Impact on employment- impact on HRD, Impact on Wages & Benefits, Impact on Trade Unions, Impact on Collective Bargaining, Impact on Participative management and Quality Circles, Managing Diversified cultures.

UNIT – 2: Total quality management and HRM 6 Hours
Introduction, Principles and core concepts of TQM, HRM and TQM, the Total quality HR strategy.

UNIT – 3: Recent Techniques in HRM 14 Hours
Employees for lease, Moon lighting by employees – Blue moon to full moon, Dual career groups, Flexitime and Flexiwork, Training and Development – Organization's Educational Institutes, Management Participation in Employee's Organization, Consumer Participation in Collective Bargaining, Collaborative Approach, Employee's Proxy, HR accounting, Organizational Politics, Exit Policy and Practice, Future of HRM.

UNIT – 4: Managing HR in an International Business 10 Hours
Introduction – The internationalization of Business - Improving international assignments through selection - Diversity counts- sending women managers abroad - Training and maintaining international employees.

UNIT – 5: HR Records, Audit, Research and Information system 10 Hours
HR Records, HR Audits, HR Research, HR Information System, HR philosophy and building employee commitment.

SKILL DEVELOPMENT:

- Understand the concept of TQM in HR.
- Visit any establishment of MNCs and understand the training requirements of Manpower in the global context.

BOOKS FOR REFERENCE:

1. Subba Rao, *International Human Resource Management*
2. Shaun Tyson, *Strategic Prospects HRM.*
3. Peter J. Dowling & Others, *International Human Resources Management.*
4. Sengupta/Bhattacharya; *International Human Resources Management.*

6.6 EXIM & FOREX MANAGEMENT

OBJECTIVE

To enable the students to acquire skills in Exim & Forex Management.

Unit 1: FOREIGN EXCHANGE MARKET

12 hrs

The Foreign Exchange Market, Structure and Organization – Mechanics of Currency Trading – Types of Transactions and Settlement Dates – Exchange Rate Quotations and Arbitrage – Arbitrage with and without Transaction Costs – Swaps and Deposit Markets – Option Forwards – Forward Swaps and Swap Positions – Interest Rate Parity Theory.

Unit 2: MARKET FUTURE

12 hrs

Currency and Interest Rate Futures, Future Contracts, Markets and Trading Process, Future Prices Spot and Forward, Hedging and Speculation with Currency Futures – Interest Rate Futures – Foreign Currency Options – Option Pricing Models – Hedging with Currency Options – Future Options – Innovations.

Unit 3: EXCHANGE RATE

12 hrs

Exchange Rate Determination and Forecasting – Setting the Equilibrium Spot Exchange Rate – Theories of Exchange Rate Determination – Exchange Rate Forecasting.

Unit 4: RISK MANAGEMENT

12 hrs

Foreign Exchange Risk Management – Hedging, Speculation and Management of Transaction Exposure – Using Forward Markets for Hedging – Hedging with Money Market, Currency Options and Currency Futures – Internal Hedging Strategies – Speculation in Foreign Exchange and Money Markets.

Unit 5: RATE MANAGEMENT

12 hrs

Management of Interest Rate Exposure – Nature and Measurement – Forward Rate Agreements (FRA's) Interest Rate Options, Caps, Floors and Collars, Cap and Floors – Options on Interest Rate Futures, Some Recent Innovations – Financial Swaps.

BOOKS FOR REFERENCE

- 1) Shapiro Alan. C., *Multinational Financial Management*. Prentice Hall, New Delhi
- 2) Chaudhuri & Agarwal: *Foreign Trade and Foreign Exchange*, HPH
- 3) Apte P.G., *International Financial Management*, Tata McGraw Hill, New Delhi
- 4) Jain : *Export Import Procedures and documentation*
- 5) Mcrae T.N and D.P Walkar, *Foreign Exchange Management*, Prentice Hall.
- 6) Evilt H.E., *Manual of Foreign Exchange*.
- 7) Holgate H.C.F, *Exchange Arithmetic*
- 8) Rajwade A.V., *Foreign Exchange Risk Management*, Prentice Hall of India.
- 9) A. Kumar; *Export and Import Management*.

INFORMATION & TECHNOLOGY GROUP

5.6 ACCOUNTING INFORMATION SYSTEMS

Objective:

Accounting Information Systems is concerned with the way computerized information systems impact how accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.

Unit – 1 :The Information System: An Accountant’s Perspective **10 hours**
The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function
The Evolution of Information System Models - The Manual Process Model, The Flat-File Model, The Database Model, The REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2 : Introduction to Transaction Processing **10 hours**
An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle , Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts , Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems , Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3 : Computer-Based Accounting Systems **10 hours**
Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues.

Unit – 4 : Financial Reporting and Management Reporting Systems **15 hours**
Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting , Behavioral Considerations.

Unit-5:Computer Controls and Auditing IT Controls And Accounting Package **15 hours**
Relationship between IT Controls and Financial Reporting, Audit Implications of Sections **IT Governance Controls, Organizational Structure Controls**, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure. Tally software and it uses with problems

References:

- 1. Accounting Information Systems, 11/E Marshall B. Romney, Paul J. Steinbart, Arizona State University, Prentice Hall**
- 2. The Crossroads of Accounting and IT** Donna Kay, Ali Ovliia, May 2011, Hardback,
- 3. Accounting Information Systems International Edition 10th Edition George Bodnar, William Hopwood Aug 2009,**

5.7 ENTERPRISE RESOURCE PLANNING

Objectives:

This paper will orient students to understand that business processes can be integrated in a seamless chain.

UNIT 1: INTRODUCTION

10 hours

Introduction To ERP, Evolution of ERP, What is ERP? Reasons for the growth of ERP, Scenario and Justification of ERP in India, Evaluation of ERP, Various Modules of ERP, Advantage of ERP.

UNIT 2: ERP ENVIRONMENT

10 hours

An overview of Enterprise, Integrated Management Information, Business Modeling, ERP for Small Business, ERP for make to order companies, Business Process Mapping for ERP Module Design, Hardware Environment and its Selection for ERP Implementation.

UNIT 3: ERP RELATED TECHNOLOGIES

10 hours

ERP and Related Technologies, Business Process Reengineering (BPR), Management Information System (MIS), Executive Information System (EIS), Decision support System (DSS), Supply Chain Management (SCM)

UNIT 4: ERP MODULES

10 hours

ERP Modules, Introduction to Finance, Plant Maintenance, Quality Management, Materials Management, HR, Marketing

UNIT 5: ERP Market

10 hours

ERP Market, Introduction, SAP AG, Baan Company, Oracle Corporation, People Soft, JD Edwards World Solutions Company, System Software Associates, Inc. (SSA) QAD, A Comparative Assessment and Selection of ERP Packages and Modules.

Skill Development:

Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE:

1. *Enterprise Resource Planning* : Alexis Leon, Leon Publishers
2. *"Managing Business Process Flows* : Ravi Anupindi, Suni Chopra,
3. *Pearson Education".*
4. *Enterprise Resource Planning* : Altekar, PHI.
5. *Enterprise Resource Planning* : Srivatsava, I.K Intl
6. *Enterprise Resource Planning* : Zaveri Jyotindra
7. *Enterprise Resource Planning* : C.S.V Murthy
8. *ERP* : Vinod Kumar Garg and N.K.
Venkitakrishnan, PHI.
9. *Introduction to SAP, an Overview of SD* : MM, PP, FI/CO Modules of SAP.
10. *Enterprise Resource Planning* : P. Diwan:

6.5 INFORMATION TECHNOLOGY AND AUDIT

OBJECTIVE: This subject aims at imparting knowledge about auditing done with the use of information technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE **10 Hrs**

Introduction – Meaning - Definition -- Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS **10 Hrs**

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS **12 Hrs**

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods, setting closing stock manually in the balance sheet. Balance sheet of joint stock companies.

Unit 4: TAX AUDIT **12 Hrs**

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT **10 Hrs**

Creation and maintenance of Audit Programme, create the Audit Programme as pre audit activity, Supports to prepare and maintain **Audit Working Papers**, Facility to mark the applicable and compiled **Accounting Standards** for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE:

1. *Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.*
2. *Guide to Tally 9, Law Point,*
3. *Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5*

6.6 BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this course is to acquaint students with the banking technology and their recent developments. Also it will enhance the students with live picture of modern banking concepts and Techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING

10 Hours

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS

10 Hours

Over of delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3. BACK OFFICE OPERATIONS

10 Hours

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4. INTER BANK PAYMENT SYSTEM

10 Hours

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGSS – Negotiated dealing systems and securities settlement systems – Electronic Money – E-cheques.

Unit 5. CONTEMPORARY ISSUES IN BANKING TECHNIQUES

10 Hours

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

REFERENCES

1. Kaptan S S & Choubey N S, "E-Indian Banking in Electronic Era", Sarup & Sons, New Delhi.
2. Padwal & Godse: Transformation of Indian Banks with Information Technology HPH
3. Vasudeva, "E-Banking", Common Wealth Publishers, New Delhi, 2005.
4. Chandramohan : Fundamental Computer Network, I.K. International
5. Effraim Turban, Rainer R. Kelly, Richard E.Potter, "Information Technology", John Wiley & Sons Inc, 2000.
6. Andrew S. Tanenbaum, "Computer Networks", Tata Mcgraw Hill, 3rd Edition, 2001

Bangalore University
Bachelor of Business Management
(New Scheme)

SEMESTER SCHEME OF EXAMINATION UNDER SEMESTER : BBM COURSE

SEM NO.	PAPER NO.	TITLE OF THE PAPER	LECTURE HOURS	MARKS		TOTAL MARKS
				UE	RM	
I	1.1	LANGUAGE: KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH/ MARATHI/HINDI	04	90	10	100
	1.2	ENGLISH	04	90	10	100
	1.3	BUSINESS ECONOMICS	04	90	10	100
	1.4	FUNDAMENTALS OF ACCOUNTING	04	90	10	100
	1.5	BUSINESS MANAGEMENT	04	90	10	100
	1.6	BUSINESS MATHEMATICS	04	90	10	100
		TOTAL	24	540	60	600
II	2.1	LANGUAGE: KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH/ MARATHI/HINDI	04	90	10	100
	2.2	ENGLISH	04	90	10	100
	2.3	BUSINESS STATISTICS	04	90	10	100
	2.4	FINANCIAL ACCOUNTING	04	90	10	100
	2.5	ORGANISATIONAL BEHAVIOUR	04	90	10	100
	2.6	BUSINESS ENVIRONMENT	04	90	10	100
		TOTAL	24	540	60	600
III	3.1	BUSINESS COMMUNICATION	04	90	10	100
	3.2	HUMAN RESOURCE MANAGEMENT	04	90	10	100
	3.3	MARKETING MANAGEMENT	04	90	10	100
	3.4	CORPORATE ACCOUNTING	04	90	10	100
	3.5	SERVICES MANAGEMENT	04	90	10	100
	3.6	INTERNATIONAL BUSINESS	04	90	10	100
	3.7	INDIAN CONSTITUTION	04	90	10	100
		TOTAL	28	630	70	700
IV	4.1	BUSINESS RESEARCH METHODS	04	90	10	100
	4.2	BUSINESS LAW	04	90	10	100
	4.3	COST ACCOUNTING	04	90	10	100
	4.4	FINANCIAL MANAGEMENT	04	90	10	100
	4.5	PRODUCTION & OPERATIONS MANAGEMENT	04	90	10	100
	4.6	LAW AND PRACTICE OF BANKING	04	90	10	100
	4.7	COMPUTER FUNDAMENTALS	04	90	10	100
		TOTAL	28	630	70	700
V	5.1	INCOME TAX	04	90	10	100
	5.2	STRATEGIC MANAGEMENT	04	90	10	100
	5.3	MANAGEMENT ACCOUNTING	04	90	10	100
	5.4	COMPUTER APPLICATION IN BUSINESS	04	90	10	100
	5.5	PROJECT MANAGEMENT	04	90	10	100
	5.6	ENTREPRENEURIAL DEVELOPMENT	04	90	10	100
		TOTAL	24	540	60	600

VI	6.1	MANAGEMENT INFORMATION SYSTEM	04	90	10	100
	6.2	ELECTIVE – I	04	90	10	100
	6.3	ELECTIVE – II	04	90	10	100
	6.4	ELECTIVE – III	04	90	10	100
	6.5	ELECTIVE – IV	04	90	10	100
	6.6	PROJECT REPORT VIVA VOCE		75	25	100
				20	525	75
		TOTAL				3800

UE – UNIVERSITY EXAM
RM - RECORD MAINTENANCE

ELECTIVE – I: HRM
ELECTIVE – II: MARKETING
ELECTIVE – III: FINANCE
ELECTIVE –IV: INFORMATION TECHNOLOGY MANAGEMENT
ELECTIVE –V: INSURANCE
ELECTIVE –VI: ADVERTISING AND MEDIA MANAGEMENT
ELECTIVE – VII: TOURISM
ELECTIVE – VIII: INTERNATIONAL BUSINESS

ELECTIVE – I: HRM

- Ø HUMAN RESOURCE DEVELOPMENT
- Ø INDUSTRIAL RELATIONS
- Ø LABOUR WELFARE AND SOCIAL SECURITY
- Ø LABOUR LAWS

ELECTIVE – II: MARKETING

- Ø PRODUCT AND SALES MANAGEMENT
- Ø ADVERTISING AND MEDIA MANAGEMENT
- Ø CONSUMER BEHAVIOUR
- Ø SERVICES MARKETING

ELECTIVE – III: FINANCE

- Ø FINANCIAL MARKETS AND SERVICES
- Ø INTERNATIONAL FINANCE
- Ø COST AND FINANCIAL ANALYSIS
- Ø PORTFOLIO MANGEMENT

ELECTIVE – IV: INFORMATION TECHNOLOGY MANAGEMENT

- Ø E-BUSINESS AND WEB DESIGNING
- Ø ENTERPRISE RESOURCE PLANNING
- Ø DATA BASE MANAGEMENT
- Ø SYSTEM ANALYSIS AND DESIGN

ELECTIVE –V: INSURANCE

- Ø PRINCIPLES AND PRACTICE OF LIFE INSURANCE
- Ø PRINCIPLES AND PRACTICE OF GENERAL INSURANCE
- Ø ACTURIAL SCIENCE
- Ø RISK MANAGEMENT

ELECTIVE – VI: ADVERTISING AND MEDIA MANAGEMENT

- Ø ADVERTISING
- Ø MEDIA MANAGEMENT
- Ø MULTIMEDIA
- Ø TECHNOLOGY AND ADVERTISING

ELECTIVE – VII: TOURISM

- Ø TOURISM BUSINESS
- Ø TOURISM PRODUCT
- Ø TOURISM MARKETING
- Ø TRAVEL AGENCY AND TOUR OPERATORS BUSINESS

ELECTIVE – VIII: INTERNATIONAL BUSINESS

- Ø EXIM TRADE
- Ø INTERNATIONAL MARKETING
- Ø INTERNATIONAL FINANCE
- Ø INTERNATIONAL HRM

1.3 BUSINESS ECONOMICS

CHAPTER – 1: 6 Hrs

Business Economics

Nature & scope of Business Economics - Micro and Macro economics – Need - Objectives and importance of Business Economics.

Goals of business – Economics Goals – Social Goals – Strategic Goals - Profit maximisation Vs Optimisation of profits.

CHAPTER – 2: 4 Hrs

Consumer Behaviour: The Law of Diminishing Marginal Utility – The law of equi-marginal utility – the indifference curve techniques – properties of indifference curve.

CHAPTER – 3: 10 Hrs

Demand and Revenue Concepts

Meaning of demand – Determinants of demands - Demand Schedule – The Demand curve – The Law of Demand – Exceptions to the law of demand, Demand Distinction (types of demand) - Elasticity of Demand – Price elasticity – Types – Measurement of Price elasticity – factors influencing elasticity of demand – Income elasticity of demand – Types – Cross elasticity of demand, Demand Forecasting – Types – Techniques, Revenue concepts – Total revenue, Average revenue, Marginal revenue.

CHAPTER – 4: 4 Hrs

Production

Introduction – Production Functions – Law of Variable Proportions – Production functions with two variable inputs (isoquants & iso costs). Equilibrium through Iso quants and Iso cost curves.

CHAPTER – 5: 8 Hrs

Cost Analysis

Introduction – Cost Classification - Real Cost – Opportunity Cost – Money Cost – Explicit and Implicit Cost – Accounting and Economic Cost – Fixed and Variable Cost – Total Cost –

Marginal Cost – Short Run Total Cost Schedule of a Firm – TFC, TVC & TC Curves – The behaviour of short run average cost curve – Marginal Cost Curve – The Long Run Average Cost Curve – Cost and Output Relations. (Simple Problems)

CHAPTER – 6: 12 Hrs

Analysis of Market situations and Pricing.

Kinds of competitive situations – features of perfect competition, monopoly, duopoly, oligopoly and monopolistic competition.

Pricing: Meaning, Types of pricing, Pricing under different market situation: Perfect competition – Price determination under monopoly price discrimination – monopolistic competition and Price determination.

CHAPTER – 7: 4 Hrs

National Income

Meaning, Methods & difficulties of Measuring National income, uses of National Income. Meaning of GNP, GDP, NNP, PI, DPI.

CHAPTER – 8: 2 Hrs

Business cycles

Meaning – Features – Phases of a trade cycle – Adjusting business plans to cyclical situations.

SKILL DEVELOPMENT:

?Ñ Construction of Demand Schedule for any product

?ö Calculation of elasticity of demand

? Computation of Average Cost, Marginal Cost, Marginal Revenue, Average Revenue.

?< Fit a straight line trend by the method of the least square

?^ Numerical problems GNP, GDP, NNP, PI, DPI

?f Chart out Business cycle suiting present Indian Economic Conditions

BOOKS FOR REFERENCE:

1. Reddy P.N and Appanniah H.R - Business Economics
2. Srivayya, Gangadhara Rao, Rao V.S.P. - Managerial Economics
3. Gupta G.S. - Managerial Economics
4. Ivon Png - Managerial Economics
5. Dr. D.M. Mithani - Managerial Economics
6. Atmanand - Managerial Economics
7. Shankaran S - Business Economics
8. Paul R.Ferguson - Business Economics
9. Sharma N.K. - Business Economics
10. Wali and Kalkundikar - Business Economics
11. Varshney and Maheshwari - Managerial Economics
12. D.N. Dwivedi – Managerial Economics
13. Barry Keating & J. Hoton Wilson – Managerial Economics, Bizantra Pub.
14. Lekhi. R.K and Aggarwal S.L – Business Economics.

1.4 FUNDAMENTALS OF ACCOUNTING

CHAPTER – 1: 6 Hrs

Introduction to Accounting

Meaning, Need for accounting, Internal and External uses of Accounting information, Accounting concepts and conventions, Accounting practices, Generally Accepted Accounting Principles. (Concept only of GAAP)

CHAPTER – 2: 10 Hrs
Accounting systems & process
Nature of accounting, Systems of accounting (Single entry and double entry), Process of accounting, transactions, journal entries and posting to ledger.

CHAPTER – 3: 16 Hrs
Subsidiary books
Subsidiary books - all subsidiary books (Sales book, sales return book, purchases book, purchase returns book, bills receivable book, bills payable book, cash book (Single column, double column, and three columnar cash book), petty cash book and journal proper.
Bank reconciliation statement – Need for reconciliation and preparation of bank reconciliation statement.

CHAPTER – 4: 8 Hrs
Rectification of errors and Trial balance
Types of accounting errors and methods of rectification of errors. Preparation of Trial balance.

CHAPTER – 5: 12 Hrs
Final Accounts: Preparation of Trading and Profit and Loss account and balance sheet (including adjustments for Sole proprietary concern)

CHAPTER – 6: 8 Hrs
Single Entry system of bookkeeping - Preparation of Opening and Closing statement of Affairs and Computation of profit.

SKILL DEVELOPMENT:

- ?^ Writing up subsidiary books
- ?f Preparation of Bank Reconciliation statement.
- ?æ Conversion of Single entry into Double entry – steps involved and numerical example.
- ?É Accounting Equations.
- ?ë Preparation of trading, profit and loss account of a sole trader from a trial balance.

BOOKS FOR REFERENCE:

1. Principles and Practice of Accountancy – V.A.Patil and J.S. Korlahalli
2. Grewal T.E. – Double Entry book keeping
3. Shukla and Grewal – Advanced Accountancy
4. Gupta and Radhaswamy – Advanced Accountancy Vol I& II
5. Hrishikesh Chakraborty –Advanced Accounts
6. Jain SP and Narang KL, Basic Financial Accounting – I
7. S.N. Maheshwari, Fundamental of Accounting.

1.5 BUSINESS MANAGEMENT

CHAPTER – 1: 4Hrs
Meaning - Need for Business - Functions nature of Business - Scope of Business (Commerce, Trade and Aids to trade) - Business objectives - Characteristics of business

CHAPTER – 2: 10Hrs

Forms of Business ownership

Meaning and Need - proprietary concerns Partnership firms - Hindu Undivided Family (HUF) - Companies - Government undertakings
Non Business Organisation - Trusts - Co-operative Society - Clubs & Associations - NGO's
(Meaning, Nature, Merits and Limitations)

CHAPTER – 3: 8Hrs

Management

Introduction - Meaning - nature and characteristics of Management, Scope and functional areas of management - Management as a science art or profession - Management & Administration - Principles of management - Social responsibility of management and Ethics.

CHAPTER – 4: 8Hrs

Planning

Nature, importance and purpose of planning Planning process - Objectives - Types of plans (Meaning only) - Decision making - importance & steps

CHAPTER – 5: 8Hrs

Organising and Staffing

Nature and purpose of organization - Principles of organization- Types of organization - Departmentation - Committees - Centralisation V s Decentralisation of authority and responsibility Span of Control - MBO and MBE(Meaning only) Nature and importance of Staffing - Process of Selection & Recruitment(in brief)

CHAPTER – 6: 8Hrs

Directing

Meaning and nature of directing - Leadership styles Motivation Communication - Meaning and importance - Coordination meaning and importance and Techniques of Co-ordination

CHAPTER – 7: 4Hrs

Control

Meaning and steps in controlling, Essentials of a sound control system, Methods of establishing control (in brief)

SKILL DEVELOPMENT:

?Ç Identify some popular NGO's in the region and list out their objectives

?è Comparison of various features of forms of business ownership

? A practical session on communication skills

? Listing the social responsibilities of firm of your choice with photographs / pictures of a company.

?ê Prepare a diagram of decision making in organization of your choice.

?4 Prepare organization chart of any company which you have visited.

?w Some illustrations of practicing Ethics by firms.

BOOKS FOR REFERENCE:

1. Koontz & O'Donnell, Management
2. Appaniah & Reddy, Essentials of Management
3. M Prasad, Principles of management
4. Rustum & Davan, Principles and practice of Management
5. Srinivasan & Chunawalla, Management Principles and Practice
6. J.S. Chandan, Management Concepts and Strategies
7. Thomas N. Duening and John. M. Ivancevich, Management Principles and Guidelines, Biztantra Pub.

1.6 BUSINESS MATHEMATICS

- CHAPTER – 1: 6Hrs
Basic concepts of Mathematics- Theory of numbers, Factorisation, HCF, LCM.
- CHAPTER – 2: 12Hrs
Theory of Equations, Linear Equations, Quadratic equations - Solutions of linear and quadratic equations, solutions of systems of linear equations in the two variables (without proof)
Examples of Business application of equations.
- CHAPTER – 3: 10Hrs
Matrices and Determinants (without proof)
Matrices, Types of Matrices- problems on addition, subtraction, Multiplication of Matrix - Division of matrix -Transpose of Matrix -Ad joint of a Matrix- Inverse of a Matrix Determinants - Solution of Simultaneous Equations (Cramer's rule) Examples of Business application of Matrices.
- CHAPTER – 4: 8Hrs
Progressions (without proof) - Problems on Arithmetic progression, geometric progression-
Examples of Business application of Progressions.
- CHAPTER – 5: 6Hrs
Permutation and Combinations (without proof) Problems on Permutation and Combinations -
Examples of Business application of Permutation and Combinations.
- CHAPTER – 6: 6Hrs
Ratio and Proportion, Stocks and Shares, Interest (Simple and Compound Interest) And Annuities.
- CHAPTER – 7: 12Hrs
Differential Calculus.
Differentiation- Introduction- Derivative of a function of one variable, constant with a function, Sum of functions, Product of two functions ,Quotient of two functions, Function of a function, logarithmic function, Differentiation of implicit functions, Successive Differentiation, Parametric functions and Maxima and minima. Introduction to integral calculus.
- SKILL DEVELOPMENT:
- ?• Application of Equation to Business situation – any one situation
 - ?Û Application of Matrix multiplication to any one business situation
 - ? Using differential calculus arriving at minimum cost, maximum revenue and maximum profit
 - ?^a Problems on simple and compound interest – any two problems of different situations in each
 - ?7 Problems on stocks and shares – any two

BOOKS FOR REFERENCE:

1. Dorairaj S.N, Business Mathematics.
2. D.C. Sanchethi and V.K. Kapoor, Business Mathematics.
3. P. R. Vittal, Business Mathematics.
4. V.K. Kapoor, Problems and Solutions in business Mathematics
5. B.M. Aggarwal, Business Mathematics
6. G.K. Ranganath, C.S. Sampangiram & Y. Rajaram, A text book of Business Mathematics
7. D.C. Sanchethi & B.M. Aggarwal, Business Mathematics.
8. Sivayya & Sathya Rao, An introduction to Business Mathematics
9. Quzi Zameeruddin & others, Business Mathematics
10. S.L. Aggarwal, Business Mathematics and Statistics.
11. K.V. Narayana & Dr. M.K. Purushotham, Business Mathematics
12. Tarroyaman, Mathematics for economics.

2.3 BUSINESS STATISTICS

CHAPTER – 1: Background and Basic Concepts Introduction – Statistics defined – Functions – Scope – Limitations.	4 Hrs
CHAPTER – 2: Diagrammatic and Graphic Representation Introduction – Significance – Difference between Diagrams and Graphs – Types of Diagrams.	6 Hrs
CHAPTER – 3: Measures of Central Tendency Introduction – Types of Averages – Arithmetic Mean (Simple and Weighted) – Median – Mode.	10 Hrs
CHAPTER – 4: Measures of Dispersion Range – Quartile Deviation – The Mean deviation and the Standard deviation – Coefficient of Variation.	10 Hrs
CHAPTER – 5: Correlation and Regression Analysis Meaning – types – probable error – rank correlation (excluding bivariate and multi correlation)	10 Hrs
CHAPTER – 6: Time Series Meaning and components – (Problems on moving average and least square method)	10 Hrs
CHAPTER – 7: Index Numbers Classification – Construction of Index numbers – Methods of constructing index numbers Simple Aggregative Method – Simple Average of Price Relative Method – Weighted Index Method – Laspear’s method – Paasche’s method – Fischer’s method.	10 Hrs

SKILL DEVELOPMENT:

- ?’ Preparation of different diagrams and graphs.
- ?’ Prepare tables based on real data and compute arithmetic mean / median etc..
e.g. (a) data of T.V viewership by class students

- (b) data of weekly spending habits of class students
- ?ø Compute standard deviation of real data pertaining to gold prices / silver prices / share prices etc. collecting data from dailies.
 - ? Prepare a chart showing wholesale price index / consumer price index / for atleast 3 months under observation.
 - ?> Take any ten observations of two live variables and graphically present to find correlation.
 - ?İ Obtain profit data of any company for 20 years and find moving average.

BOOKS FOR REFERENCE:

1. S.P. Gupta, Statistical Methods.
2. Elhance D.N, Fundamentals of Statistics.
3. Dr. B.G. Sathyaprasad & Prof. Chikkodi, Business Statistics.
4. Gupta. S.C, Fundamentals of Statistics.
5. S. Saha, Business Statistics.
6. Dr. J.S. Chandra, Prof. Jagjit Singh & K.K. Khanna, Business Statistics.
7. D.N. Ellahance, Veena Ellahance, B.M. Agarwal, Fundamentals of Statistics.
8. Aggarwal S.L., Business Mathematics and Statistics.

2.4 FINANCIAL ACCOUNTING

- CHAPTER – 1: 10Hrs
 Final accounts of Partnership firms
 Meaning - Partnership deed and its significance - Partners capital accounts (Fixed and fluctuating) - Final accounts - Preparation of P&L Appropriation Account, special Adjustments (Interest on capital, Interest on drawings, partners salary and other remuneration)
- CHAPTER – 2: 16Hrs
 Sale of a firm and conversion of Partnership into a Limited Company
 Calculation of Purchase Consideration - Accounting treatment in the books of the firm and company Including balance sheet.
- CHAPTER – 3: 12Hrs
 Royalty Accounts
 Meaning - Minimum rent - Short workings preparation of minimum rent account - Recoupment of short workings - Irrecoverable short workings -Entries in the books of Lessee and Lessor. (Excluding sublease)
- CHAPTER – 4: 12Hrs
 Hire Purchase and Installment purchase.
 Meaning - Features - Sale V s Hire Purchase – Entries and accounts in the books of the both the parties (Purchaser and vendor). (Asset Accrual method only) Interest Suspense method.
- CHAPTER – 5: 10Hrs
 Insurance claims:
 Calculation of loss of Stock (including normal and abnormal stock). Preparation of statement of claim, partial insurance, average clause.

SKILL DEVELOPMENT:

- ?~ List any five terms in a partnership deed and understand their accounting implications.
- ? A problem on calculation of purchase consideration when a firm is converted into a limited company
- ?X Computation of cash price, interest components and hire purchase instalments taking any

problem

- ?ø Understand the meaning and purpose of loss of stock insurance including the average clause
- ?^ A problem on royalty highlighting the significance of minimum rent and recoupment of short workings

BOOKS FOR REFERENCE:

1. B.S. Raman, Advanced Accountancy Vol II
2. Shukla and Grewal, Advanced Accountancy
3. M.A.Arunachalam & K.S.Raman, Advanced Accountancy
4. Gupta and Radhaswamy, Advanced Accountancy Vol I& II
5. Agarwal and Jain, Advanced financial Accounting
6. Maheshwari, Advanced Accountancy Vol I & II
7. B.M. Lall Nigam & G.L. Sharma, Advanced Accountancy
8. S.N. Maheshwari & S.K. Maheshwari, Financial Accounting
9. Jain S.P & Narang K.L, Basic Financial Accounting
10. S. Anil Kumar, Mariappa & V. Rajesh Kumar, Financial Accounting

2.5 ORGANISATIONAL BEHAVIOUR

CHAPTER – 1: 4Hrs

Organisational Behaviour

Organisation - Meaning and significance - The study of organisation behaviour - Definition - Scope and Application in Management -Contributions of other disciplines - Organisational structure, challenges facing management, Emerging Organisations.

CHAPTER – 2: 4Hrs

Perception

Meaning - Need - Perceptual Process – Perceptual Mechanism - Factors influencing perception - Interpersonal perception.

CHAPTER – 3: 8Hrs

Motivation

Meaning - Nature - Motivation process - Theories of Motivation (Maslow's Need Hierarchy theory - Herzberg's Two Factor Theory - McGregor Theory X & Theory Y - Financial and Non Financial Incentives - Job enrichment.

CHAPTER – 4: 4Hrs

Attitudes

Meaning - Characteristics of Attitudes – Components of Attitude - Attitude and Behaviour – Attitude formation and Measurement of Attitudes

CHAPTER – 5: 4Hrs

Learning and behaviour modification

Principles of learning & Reinforcement - observational learning - Cognitive Learning - Organisational BehavIOur Modification - Steps in Organisational Behaviour Modification process - Organisational Reward Systems

CHAPTER – 6: 6Hrs

Personality

Determinants of Personality - Biological factors - Cultural factors - family and Social Factors - Situational factors -Personality attributes influencing OB, Interactive Behaviour and

Interpersonal Conflict.

CHAPTER – 7: 6Hrs

Group Dynamics

Meaning - Types of Groups - Functions of small groups - Group Size Status - Managerial Implications- Group Behaviour - Group Norms - Cohesiveness - Group Think

CHAPTER – 8: 6Hrs

Leadership

Formal and Informal Leadership Characteristics Leadership Styles - Autocratic / Dictatorial - Democratic / Participative, Free reign/Laissez faire Leadership Styles & Management Activities.

CHAPTER – 9: 8Hrs

Organisational Change

Meaning - Nature of work change - Pressure for change - Change process - Types of change – Factors influencing change - resistance to change - overcoming resistance - Organisational Development - different techniques.

SKILL DEVELOPMENT:

- ?° Meaning of job enrichment and list the reconcilements of job enrichments
- ?Ñ Characteristics of attitudes and components of attitudes – A brief explanation
- ?ö List the determinants of personality
- ? Factors influencing perceptions – A brief explanation
- ?< List the characteristics of various leadership styles.

BOOKS FOR REFERENCE:

- 1.Robbins, Organisational Behaviour
- 2.John W. Newstrom & Kieth Davis, Organisational Behaviour
- 3.Fred Luthans, Organisational Behaviour
- 4.K. Aswathappa, Organisational Behaviour
- 5.M. Gangadhar. V.S.P.Rao and P.S.Narayan, Organisational Behaviour
- 6.N.S. Gupta, Organisational Behaviour
- 7.Jit. S. Chandan, Organisational Behaviour
- 8.M.N. Mishra, Organisational Behaviour
- 9.Sharma R.K & Gupta S.K, Management and Behaviour Process.
10. Appanniah & Reddy, Managemetn and Behavioural Process.

2.6 BUSINESS ENVIRONMENT

CHAPTER – 1: 4 Hrs
Business and its Environment
Meaning - Scope and Characteristics - Significance for economic policies and decisions in Organisation.

CHAPTER – 2: 6 Hrs
Global Environment
Nature of Globalisation – Manifestations of globalisation - Challenges of international business - Strategies for going global - India, WTO and trading blocks.

CHAPTER – 3: 6 Hrs
Technological Environment
Meaning – Features – Impact of Technology - Technology and Society- Management of Technology.

CHAPTER – 4: 8 Hrs
Political Environment
Political institutions - Legislature - Executive - Judiciary - The Constitution of India - The Preamble - The fundamental Rights - Rationale and Extent of State Intervention - Role of Government in business.

CHAPTER – 5: 10 Hrs
Economic Environment
Characteristics of Indian Economy, Factors affecting economy, Economic resources (natural, industrial and technological) Impact of Liberalisation Privatisation and Globalisation on Indian Business.

CHAPTER – 6: 10 Hrs
Government policies
Impact of Fiscal, Monetary, Exim Policy and Industrial Policy on Business (Latest Policy Measures)

CHAPTER – 7: 6 Hrs
Natural environment - Meaning and influence on business

SKILL DEVELOPMENT:

- ? Study the impact of economic policies on decisions of any organization of your choice
- ?S Analyse the elements of globalisation and role of WTO
- ?– Globalisation of Indian business and impact of privatization and liberalization on Indian business – present a case.
- ?” Choose any one change in any of the economic policies and show the impact / or How does the change affect the business.
- ?– Political institutions – A brief account of the role of legislature, executive and judiciary.
- ?ù List the Fundamental Rights as per the Indian Constitution.
- ?< List out different trading blocs in international trade.
- ?† Give your observations as to how technology has helped society.

BOOKS FOR REFERENCE:

1. Dr. K Aswathappa, Business Environment
2. Francis Cherunilam, Business Environment
3. S. Adhikari, Business Environment
4. Misra & Puri, Economic Development

5. Ruddar Dutt & Sundaram KPS, Indian Economy
6. Chidambaram. K, Business Environment
7. Rosy Walia, Business Environment.

3.1 BUSINESS COMMUNICATION

CHAPTER – 1: 8Hrs
Business Communication
 Definition - Role of communication in business organization - Objectives of communication - Elements of communication - Process of communication Verbal and Non- verbal communication - Functions and types of communication Role of nonverbal communication.

CHAPTER – 2: 6Hrs
Organisational communication
 Dimensions in Organisational network communication structure -Communication in different situations

CHAPTER – 3: 6Hrs
Barriers to communication
 Barriers to communication in an Organisational set up and how to over come those barriers.

CHAPTER – 4: 6Hrs
Listening
 Meaning - Value of Listening - Task of Listening - Principles of Effective listening - Importance of listening in meetings, Committees, Conferences

CHAPTER – 5: 4Hrs
Interviews
 Meaning - Preparation - facing the interview Interviewer's function - Other types of interviews (Promotional, Appraisal, Exit, Problem and Stress)

CHAPTER – 6: 4Hrs
Modern Communication Devices
 Internet, Teleconferencing, Personal Digital Assistant (PDA), Mobile Phones, Computers, Laptops, Palmtops, Close Circuit TV s

CHAPTER – 7: 8Hrs
Written communication Business letters - Types - Layout - Parts of a letter Forms of Layout (Full block form, Modified block form, Semi block form etc)
Types of Business Letters
 Basic principles style and tone letters relate to calling for a post, calling for interviews, appointment orders, termination order, business enquiries, order, regret, cancellation of orders, Complaints and adjustments, Status enquiry and circulars.

CHAPTER – 8: 8Hrs
Report writing
 Reports - by individuals, by committees. Approach skills, basic principles, styles and common errors (Case study), Preparation of reports for different business situations, preparation of press note.

SKILL DEVELOPMENT:

- ?→ List and mention the features of modern communication devices
- ?@ A brief note on the preparations for facing the interview
- ?< A brief note on the significance of listening in meetings, committees and conferences

- ?e Writing business letters – take any five situation and draft relevant business letters.
- ?ø Preparing the chairman’s report on business performance to be released to the press.

BOOKS FOR REFERENCE:

1. Sharma, Business correspondence & Report Writing
2. Pradhan, Bhande and Thakur, Business Communication
3. Rai and Rai, Business Communication
4. Balasubramanyan, Business Communication
5. Raymond V. Lesikar John D. Pettit, Business Communication
6. Varinder Kumar, Business Communication
7. Reddy & Appanniah, Essentials of Business Communication.

3.2 HUMAN RESOURCE MANAGEMENT

CHAPTER – 1: Human Resource Management Meaning of HRM, Importance of HRM, Objectives and Functions, process of HRM, Systems and Techniques, Role of human resource manager, duties and responsibilities of human resource manager, typical organization set up of human resource department.	6Hrs
CHAPTER – 2: Human resource planning, Recruitment, Selection and Placement Meaning and importance of human resource planning, benefits of human resource planning, Meaning of recruitment, selection, placement and training Methods of Recruitment and Selection - Uses of tests in selection, Problems involved in placement.	8Hrs
CHAPTER – 3: Training and Induction Meaning of Training and Induction, Objective and purpose of induction, Need for training, benefits of training, Identification of training needs, methods of training.	8Hrs
CHAPTER – 4: Performance Appraisal and compensation Meaning of performance appraisal, objectives of performance appraisal, methods of performance appraisal and limitations. Principles and techniques of wage fixation, job evaluation, compensation -meaning of compensation, objectives of compensation.	8Hrs
CHAPTER – 5: Promotion & Transfers Purpose of promotion, basis of promotion, Meaning of transfer, reasons for transfer, types of transfer, right sizing of work force. Need for right sizing.	10Hrs
CHAPTER – 6: Work Environment Meaning of work environment, Fatigue, Implications of fatigue, causes and symptoms of fatigue, monotony and boredom, factors contributing to monotony and boredom, Industrial	5Hrs

accidents, Employee safety, Morale, Grievance and Grievances handling, Personnel records & Personnel Audits.

CHAPTER – 7: 5Hrs

HRD

Meaning of HRD, Role of training in HRD. Knowledge management, Knowledge resources, Impact of globalisation on human resource management, problems in relation to Transnationals and multi nationals.

SKILL DEVELOPMENT:

- ? Chart the function of HRM and a brief explanation on the need for each function.
- ? Prepare an Ad for recruitment / selection of candidates for any organization of your choice.
- ? Give observation of industrial safety practices followed by any organization of your choice
- ? Develop a format for performance appraisal of an employee
- ? Choose any MNC and present your observations on training programme.

BOOKS FOR REFERENCE:

1. C.B.Mamoria, Personnel management
2. Edwin Flippo, Personnel management
3. Aswathappa, Human Resource Management
4. Subba Rao, Human Resources management
5. Michael Porter, HRM and human Relations
6. Biswanath Ghosh, Human Resource Development and Management.
7. Reddy & Appanniah, Personnel Management.
8. Sahni, Personnel Management.

3.3 MARKETING MANAGEMENT

CHAPTER – 1: 4 Hrs

Introduction to Marketing

Definition, nature, scope and importance of marketing, Approaches to the study of marketing and economic development, traditional and modern concept of marketing. Functions of marketing.

CHAPTER – 2: 6 Hrs

Marketing Environment

Analysing needs & trends in the Micro & Macro environment - Marketing Mix - The elements of marketing mix

Market Segmentation - Bases for Market segmentation, Requisites of sound marketing segmentation - Market Targeting strategies -Positioning - Undifferentiated marketing - Concentrated marketing.

CHAPTER – 3: 6 Hrs

Analysing consumer markets and buying behaviour

Factors influencing Buying behaviour - Cultural, Social, Personal, Psychological factors - The Buying decision process - stages of the buying decision process

CHAPTER –4: 6 Hrs

Product

Classification of products, Product mix decisionProduct line, product addition & deletion,

Product life cycle, Product planning - Diversification, Product positioning, New product development process, Strategies- Branding –Packaging

CHAPTER – 5: 6 Hrs

Pricing

Pricing objectives, Policy, Factors influencing pricing policy, method of pricing policies and strategies

CHAPTER – 6: 6 Hrs

Channels of distribution

Definition - Need - channel design decision - channel management decision - factors affecting channels, Types of marketing channels.

CHAPTER – 7: 6 Hrs

Promotion

Nature and importance of promotion, Promotional methods - Advertising decisions, sales promotion, public relation, direct selling. Advertising copy, evaluation of advertising, personal selling and sales promotion.

CHAPTER – 8: 6 Hrs

Marketing Research

Marketing Information System, components - market intelligence system - Marketing Research, Process, Types and techniques of organising Marketing Research.

CHAPTER – 9:

Recent Trends in marketing

E-business, Tele-marketing, M-Business, Relationship Marketing, Retailing, Concept Marketing and Virtual Marketing.

SKILL DEVELOPMENT:

?V Analyse consumer behaviour by interacting with some select consumers of certain FMCG

?w Take any advertisement released by a company in a news paper and analyse the same keeping in view the essential ingredients of advertisements

?¾ Develop an Advertisement copy for any product of your choice

?ã Prepare a chart of marketing information system

? Draw a chart of product life cycle of one consumer durable and one consumer non durable product

?– Present diagrammatically Tele-marketing, virtual marketing or E-business

BOOKS FOR REFERENCE:

1. Philip Kotler, Marketing Management
2. William J. Stanton, Marketing Management
3. Sherleker S.A, Marketing Management
4. Ramaswamy, Marketing Management
5. J.C Gandhi, Marketing Management
6. Reddy, Appanaiah & Sherlekar, Marketing Management
7. Davar, Modern Marketing Management.
8. Rajagopal, Marketing Management.
9. Joel R. Evans and Barry Berman, Marketing in the 21st Century, Biztantra Pub.
10. Sonatakki, Marketing Management.

3.4 CORPORATE ACCOUNTING

CHAPTER –1: 10Hrs
Company Final Accounts
Meaning - Preparation of Trading and Profit and loss Account, P&L Appropriation Account - Balance Sheet

CHAPTER – 2: 12Hrs
Issue of Shares
Meaning - Kinds of Shares,- Problems on issue and allotment of Shares - Calls in arrears and Calls in Advance- Over Subscription and under Subscription - Issue of Shares at Premium, Discount - Forfeiture of shares - Reissue of forfeited shares - Issue of Shares to the Vendors - Issue of Shares to the Promoters.

CHAPTER – 3: 6Hrs
Issue of Debentures
Meaning, types of debentures, Shares V s Debentures - Issue of Debentures, Problems on issue of Debentures, Entries and Accounts.

CHAPTER – 4: 20Hrs
Pooling Method by nature of business (Amalgamation) and business purchase (Absorption and external reconstruction) as per Accounting Standards - 14 Meaning - Difference between Amalgamation and Absorption - Preparation of purchase Consideration under Different methods Settlement of Purchase Consideration - Problems on Amalgamation, Absorption and External Reconstruction

CHAPTER – 5: 12Hrs
Internal Reconstruction
Meaning - Forms of Reconstruction - Alteration of Capital and Capital Reduction - Internal Reconstruction V s Amalgamation - Internal Reconstruction - Internal Reconstruction V s Absorption V s External Reconstruction - Scheme for Internal Reconstruction of a Company – Problems

SKILL DEVELOPMENT:

- ?w Preparation of final accounts of a company – A brief note on legal requirements to be compiled with together with a numerical example.
- ?¾ A numerical example on issue and forfeiture of shares – summary of accounting procedure involved to be given
- ? A brief note on the methods of computing purchase consideration supported by numerical example involved in Amalgamation and absorption.
- ?– A brief note on motives behind mergers
- ?à Construction of a scheme for internal reconstruction taking any numerical example
- ?” Take any reported cases of merger of companies and understand the legal and accounting processes and implications.

BOOKS FOR REFERENCE:

1. R.L. Gupta and M. Radha Swamy, Advanced Accountancy
2. B.S. Raman, Advanced Accountancy Vol I&II
3. Shukla and Grewal, Advanced Accountancy
4. Anil Kumar, V. Rajesh Kumar & B. Mariappa, Financial Accounting Vol II
5. Agarwal and Jain, Advanced Financial Accounting
6. Rup Ram Gupta, Advanced Accountancy
7. Maheshwari, Advanced Accountancy Vol I & II

8. B.M. Lal Nigam & G.L. Sharma, Advanced Accountancy
9. M.A. Arunachalam & K.S. Raman, Advanced Accountancy
10. S.N. Maheshwari, Corporate Accounting.
11. Jain & Narang, Corporate Accounting.

3.5 SERVICES MANAGEMENT

CHAPTER – 1: 4Hrs
 Introduction: Understanding Services Phenomenon; Growth, of Service Sector; Role of services in Economy; The concept of Services; Characteristics of services; Classification of services

CHAPTER – 2: 6Hrs
 Marketing Mix in Service Industry
 Product in services, price, promotion, Place, process, people, physical evidence- (concepts only)

CHAPTER – 3: 6Hrs
 Knowledge of the customer: Customer Involvement in Service Processes; Customer behaviour in Service Settings; Targeting Customers, Managing Relationships and building Loyalty.

CHAPTER – 4: 8Hrs
 Planning & Managing Service Delivery - Creating delivery systems in place, Cyberspace and time; Enhancing Value by Improving Quality and Productivity; Balancing Demand & Capacity.

CHAPTER – 5: 10Hrs
 Tourism Management: Introduction; Concept & Nature of Tourism; Significance & Impact of Tourism; Market Segmentation in Tourism; Tourism marketing Mix
 Management of Travel Services:
 Role of Travel Agencies & Travel Organisation
 Tour Operations - Meaning and services.

CHAPTER – 6: 10Hrs
 Management of Hotel Industry: Hotels; Facilities; The guest Cycle; classification of hotels; Marketing Mix of Hospitality Industry

CHAPTER – 7: 6Hrs
 Health care services:
 Hospital service Management - Introduction to Hospitals; Development of Hospitals; Facilities; Personnel; Administration;
 Hospital service extensions - Pharma; Mid wife;
 Marketing the medical transcription services

SKILL DEVELOPMENT:

- ?m Visit any hotel and give an account of facilities provided by the management to tourists.
- ?~ Interact with a tourist operator and try to understand elements of tourism management.
- ?ù Select any service and analyse the Marketing mix involved.
- ?< Proforma of medical transcriptions.
- ?† List out organizations providing health care services in your area.
- ?’ List out different Health care services.
- ?’ Visit a big Hospital and identify the managerial functions and draw a chart.
- ?¬ Develop a Tourism package for 3/7/15 days.

BOOKS FOR REFERENCE:

1. Shanker, Ravi - Services Marketing - the Indian Perspective; Excel Books, New Delhi; First Edition; 2002
2. Lovelock, Christopher; Services Marketing - People, Technology, Strategy; Pearson Education Asia, Delhi; First Indian Reprint, 2001.
3. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition 2001.
4. Vasanthi Venugopal & Raghu V.N; Services Marketing; Himalaya Publishing house; Mumbai; First Edition 2001.
5. Cengiz Haksever et. al, Service Management and Operations, Pearson Education

3.6 INTERNATIONAL BUSINESS

<p>CHAPTER – 1: International Business International Business – nature Theories and Competitive advantages – Evolution – Nature of International business Reasons and Stages of internationalization – Approaches and theories of International Business – Comparative cost advantage and problems of International Business.</p>	8 Hrs
<p>CHAPTER – 2: Modes of Entering International business International Business Analysis – modes of Entry –Exporting - Licensing – Franchising – Contract manufacturing – turn Key Projects – Foreign Direct investment – Mergers and Acquisitions and Joint Ventures – Comparisons of Different modes of Entry</p>	8 Hrs
<p>CHAPTER – 3: Globalisation Meaning Definitions and Features –Stages – Stages of Markets Production – investment and Technology Globalisation – Advantages and Dis advantages methods and Essential conditions for Globalisation – Globalisation and India.</p>	8 Hrs
<p>CHAPTER – 4: MNCs and International Business Definitions – Distinction among Indian Companies, MNC, Global Companies and TNC - Organisational Transformations –Merits and Demerits - MNCs in India</p>	6 Hrs
<p>CHAPTER – 5: International marketing Intelligence Information required - Sources of Information International Marketing Information System and Marketing Research</p>	6 Hrs
<p>CHAPTER – 6: Foreign trade Process - Documents - Regulations regarding imports and exports - and Financing techniques – Imports and exports. Banks- Other financial institutions focusing on exports (ECGC, EXIM Bank- functions and roles). Exchange rate determination (concept only), capital account convertibility (concept). Balance of trade and payments. Disequilibrium's and measures for rectification.</p>	8Hrs
<p>CHAPTER – 7: Export Promotion Role and functions of state trading S.T.C, M.M.T.C, M.I.T.C.S, T.T.C.I specialised export promotion councils and agencies</p>	6 Hrs

SKILL DEVELOPMENT:

- ?ø List atleast 3 MNC's operating in India along with the products / services they offer
- ?^ List latest news affecting India through WTO, World Bank, IMF etc. collect and paste.
- ? Any two documents used in export trade
- ?« Collect and paste any two documents used in import trade
- ?>Chart in different currencies of different countries
- ?Ï Tabulate one month data of foreign exchange rate of atleast 2 currencies
- ?a Chart the features of any two schemes of Export Promotion Councils

BOOKS FOR REFERENCE:

1. K. Aswathappa, International Business
2. Francis Cherunilam, International Business Environment.
3. Subba Rao, International Business
4. Vern Terpasstra & Ravi Sarathy, International marketing
5. Balla, International Business
6. Kindle berger, International economics.

3.7 : INDIAN CONSTITUTION

UNIT – 1:

- a. Framing of the Indian Constitution: Role of the Constituent Assembly.
- b. Philosophy of the Constitution: Objectives, resolution, preamble, fundamental Rights and Duties. Human rights and Environmental protection.

UNIT – 2:

- a. Special Rights created in the Constitution of Dalits, Backward Classes, Women and Children, and religious and linguistic minorities.
- b. Directive Principles of State policy: The need to balance fundamental rights with directive principles.

UNIT – 3:

- a. Union Executive: President, Prime Minister and Council of Ministers; powers and functions, coalition Government, problems in their working.
- b. Union Legislature: Lok Sabha and Rajya Sabha, powers and functions. Recent trends in their functioning.

UNIT – 4:

- a. State Government: Governor, Chief Minister and Council of ministers, Legislature.
- b. Centre – State relations: Political, financial, administrative: Recent Trends.

UNIT – 5:

- a. Judiciary: Supreme Court, Judicial Review, Writs, Public interest litigations. Enforcing rights through writs.
- b. Emergency provisions (Article 356)

BOOKS FOR REFERENCE:

1. D.D. Basu – Introduction to the Indian Constitution.

2. A.S. Narang – Indian Constitution, Government and Politics.
3. Nani Palkhivala – We, the People, UBS Publishers, New Delhi, 1999.
4. A.G. Noorani – Indian Government and Politics.
5. J.C. Johari – Indian Government and Politics Vol. I & II, Vishal, New Delhi.
6. Gran Ville Austin – The Indian Constitution – Corner stone of a Nation, Oxford, New Delhi, 2000.
7. M.U. Plyce, Constitutional Government in India.

4.1 BUSINESS RESEARCH METHODS

CHAPTER – 1: 4Hrs
 Introduction
 Meaning - Objectives - Types of Research - Research Approaches - Research methods Vs Research Methodology - Steps in Research.

CHAPTER – 2: 4Hrs
 Defining the Research Problem
 Meaning - Selecting the Problem - Techniques involved in defining the problem.

CHAPTER – 3: 6Hrs
 Research Design
 Meaning - Need - Features - Important concepts relating to Research Design - Types of Research Design - basic Principles of Experimental Designs.

CHAPTER – 4: 8Hrs
 Sampling
 Meaning - Need - Census & Sample Survey Sampling Designs-Probability Sampling (Simple Random - Systematic - Stratified - Cluster – Area Multistage - Sequential Sampling Methods).

CHAPTER – 5: 8Hrs
 Data Collection and Processing
 Collection of Primary data - Collection of data through Questionnaire & Schedules - Secondary data – Qualitative techniques of data collection - Interview, Observation - Tabulation of Data.

CHAPTER – 6: 8Hrs
 Analysis and Interpretation of Data and Research Reporting
 Meaning of Interpretation - Technique of Interpretation - Significance of Report writing - Steps - Layout of the Research Report - Types of Reports - Precautions while writing Research Reports.

SKILL DEVELOPMENT:

- ? " Illustrate different types of samples with examples
- ?m Construct a questionnaire for collection of primary data keeping in mind the topic chosen for research
- ?ù Narrate your experience using observation technique
- ?< Diagrammatically present the information collected through the questionnaire

BOOKS FOR REFERENCE:

1. O.R. Krishna Swamy, Research Methodology
2. CR. Kothari, Research Methodology
3. Wilkinson & Bhandarkar, Methodology and Techniques of Social Research
4. Sadhu Singh, Research Methodology in social science

5. V.P. Michael, Research Methodology in Management
6. William M.K. Trochim, Research Methods, Bizantra

4.2 BUSINESS LAW

CHAPTER – 1: 4 hours

Introduction: Meaning and Scope of business law – Sources of Indian business law.

CHAPTER – 2: 30 hours

Indian Contract Act of 1872 : Definition – types of contract – essentials – offer, acceptance, consideration capacity of parties – free consent (meaning only) – legality of object and consideration – various modes of discharge of a contract – remedies for breach of contract.

CHAPTER – 3: 5 hours

Intellectual Property Legislations : Meaning and scope of intellectual properties – Paten Act of 1970 and amendments as per WTO agreements : Background – objects – definition – inventions – patentee – true and first inventor – procedure for grant of process and product patents, WTO rules as to patents (in brief), rights to patentee – infringement – remedies.

CHAPTER – 4: 4 hours

The Environment Protection Act of 1986 : Back ground – definition of 1) Environment 2) Environmental pollutant 3) Environment pollution 4) Hazardous substances, and 5) Occupier – Power of central Government in relation to protection of environment and prevention of environment pollution.

CHAPTER – 5: 4 hours

Consumer Protection Act. [COPRA] 1986 : Back ground – definitions of 1) Consumer 2) Consumer Dispute 3) Complaint 4) Deficiency 5) Service – Consumer Protection Council – consumer redressal agencies – District Forum, State Commission and National Commission.

CHAPTER – 6: 4 hours

Foreign Exchange Management Act 1999 : Objectives, Scope and salient features – offences under the act.

CHAPTER – 7: 5 hours

Cyber Laws 1999 : Objectives, definitions and salient features, provisions pertaining to piracy and related offences and penalties.

CHAPTER – 8: 4 hours

Competition Law 2003 : Meaning and scope, salient features, offences and penalties under the Act.

SKILL DEVELOPMENT:

?† Draft a 'rent agreement' incorporating all the essential features of a valid agreement.

?’ Draft an agreement to repay a loan borrowed from a bank on installment basis.

?’ Case laws ‘involving points of law of contracts’.

?¬ Draft a complaint against ‘unfair trade practice’ adopted by a businessman, to the consumer forum.

?e List out the latest cases of both High Court and Supreme Court on Environmental issues with both facts and judgements. [Atleast 2 cases]

BOOKS FOR REFERENCE:

1. Tulsian-Business Law, Tata McGraw Hill, New Delhi.
2. Aswathappa. K & Ramachandra – Business Law, HPH, Mumbai.
3. Kapoor N.D. - Business Law, Sultan Chand & Co.
4. Bare Acts.
5. Nabhi - Business Law, Indian Law House, Mumbai.
6. Garg, Sareen, Sharma & Chawla - Business Law.
7. M.C. Kuchhal, Business Law.

4.3 COST ACCOUNTING

CHAPTER – 1:

Nature & scope of Cost Accounting 10 Hrs
Meaning - Cost – Costing – Cost Accounting –Cost Accountancy – Financial Accounting and Cost Accounting - Cost Concepts – Cost Centre - Cost Unit – Classification and Elements of Cost – Costing Methods and Techniques – Preparation of Cost Sheets – Tenders and Quotations.

CHAPTER – 2:

Materials 10 Hrs
Meaning of Material Control – Steps in Material Control – Need – Objective of Material Control – Issue of Materials – Methods of Pricing material issues (FIFO, LIFO, Simple & Weighted average Methods only)

CHAPTER – 3:

Labour cost 8Hrs
Meaning of Labour Cost – Idle time – Over time - Methods of Remunerating Labour – Time rate and Piece rate systems - Halsey and Rowan Premium systems, Taylor and Merricks Differential Piece Rate systems.

CHAPTER – 4:

Overheads 10 Hrs
Classification of Overhead Cost – Allocation of Overhead Expenses – Apportionment of Overhead Expenses – Bases of Apportionment – Primary and Secondary distribution (Repeated and simultaneous equation methods only) Absorption of overhead (Machine hour rate only)

CHAPTER – 5:

Methods of cost ascertainment 16 Hrs
1. Contract costing
2. Process costing (Excluding interprocess profits and equivalent Production)
3. Operating costing (Transportation costing)

CHAPTER – 6:

Reconciliation of cost and financial accounts 6 Hrs
Meaning – Reasons for the differences – Preparation of reconciliation statement

SKILL DEVELOPMENT:

? List methods of costing adopted by industries located in the region

- ?e List materials consumed in any two organizations of your choice
- ?ø Draw a specimen of purchase requisition format
- ?^ Draw specimen of bin-cards
- ? Draw specimen of stores ledger
- ?« Draw specimen of wage sheet / pay roll with imaginary figures

BOOKS FOR REFERENCE:

1. SP Jain & KL Narang, Cost and Management Accounting
2. Prabhu Dev, Cost Accounting
3. Nigam, Theory and Techniques of Cost Accounting
4. MY Khan & PK Jain, Management accounting
5. B.M.Lall Nigam & I.C.Jain, Cost Accounting Principles and practices
6. Dr. S.N. Maheshwari, Elements of Management accounting
7. Edward B Deakin & Michael W Maher, Cost Accounting
8. Jawahar Lal, Cost Accounting
9. M.N. Arora, Cost Accounting

4.4 FINANCIAL MANAGEMENT

CHAPTER – 1: Financial Management Meaning - Scope of Finance - Financial Decisions in Firm - Goals of Financial Management.	6 Hrs
CHAPTER – 2: Financing Decision Introduction to Capitlisation and Capital structure - Sources and Instruments of funds (Long term, Medium Term and Short term sources) Primary Market, Capital Market and Money Market.	10 Hrs
CHAPTER – 3: Cost of Capital Meaning - Computation of Cost of Capital of Equity, Preference, Debentures, Retained earnings, Public Deposits - Weighted Average Cost of Capital, Marginal cost of capital.	10 Hrs
CHAPTER – 4: Capital Structure and Leverages Meaning of Capital Structure - Optimum Capital Structure - Factors determining capital structure - Problems - Leverages - Operating Leverage, Financial Leverage and Combined Leverage - EPS Analysis - Problems.	10 Hrs
CHAPTER – 5: Investment Decision Meaning of Capital Budgeting - Significance – Capital Budgeting process – Project classification and Investment Criteria - Payback method - ARR Method - Net Present Value - IRR Method – Profitability Index.	10 Hrs
CHAPTER – 6: Management of profits Meaning - Types of Dividend policies – Factors influencing dividend policy - Forms of Dividends.	

CHAPTER – 7: 8 Hrs
Management of working capital
Meaning - Introduction - concepts of working capital - Factors Influencing working capital
Requirements - Importance of adequacy of working capital - Components of working capital -
Cash Management - Receivables Management and Inventory Management (Meaning and
Importance Only) - Simple Problems on estimation of working capital requirements

SKILL DEVELOPMENT:

- ?ò Collect and paste share application form of IPO.
- ?, Collect EPS of atleast 5 companies for 3 years and draw EPS chart.
- ? Prepare a capital budget by applying different techniques for a new business to be started.
- ?· Illustrate operating cycle for atleast two different companies of your choice.
- ?8 Draw Cash Management charts.
- ?Ë Draw working capital policy charts.

BOOKS FOR REFERENCE:

1. Dr. Sathya Prasad & P.V. Kulkarni, Financial Management .
2. V.K. Bhalla, Investment management.
3. V.K. Bhalla, Financial Management.
4. I.M. Pandey, Financial Management.
5. Dr. S.N. Maheswari & Dr. C.B. Gupta, Financial Management.
6. Prasanna Chandra, Financial Management & Practice.
7. Preeti Singh, Investment Management Security Analysis and Portfolio Management.
8. Sharma & Gupta, Financial Management.

4.5 PRODUCTION AND OPERATIONS MANAGEMENT

CHAPTER – 1: 4 Hrs
Introduction to Production & Operation management - Meaning & Scope of the subject

CHAPTER – 2:
Plant location and layout
Factor affecting location, theory and practices, cost factor in location, plant layout principles,
space requirement, Different types of facilities, Organisation of physical facilities – building,
sanitation, lighting, air conditioning, safety etc..

CHAPTER – 3: 10Hrs
Materials Management
Purchasing, selection of suppliers, inventory management, material handling principles and
practices, economic consideration, criteria for selection of materials handling equipment,
standardization, codifications, simplification, inventory control, Value analysis, value
engineering and ergonomics, Inter- relationship of plant layout and materials handling.

CHAPTER – 4: 10 Hrs
Production planning and control
Objectives and concepts, capacity planning, corresponding production planning, controlling,
scheduling routing

CHAPTER – 5: Quality Control	8Hrs
Statistical quality control, Quality management, Control charts and operating characteristic curves, acceptance sampling procedures, quality circle, Meaning of ISO and TQM.	
CHAPTER – 6:	6 Hrs
Time and Motion Study	
Concepts of “Standard Time”, Method study, time and motion study, charts and diagrams, work measurements	
CHAPTER – 7:	
Maintenance Management	4 Hrs
Types of maintenance, Break down, spares planning and control, preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern scientific maintenance methods	
CHAPTER – 8:	
Waste Management	4 Hrs
Scrap and surplus disposal, salvage and recovery	
CHAPTER – 9:	
Automation	6Hrs
Meaning, advantages and problems	

SKILL DEVELOPMENT:

- ?< Visit any organization and give a report on the functioning of PPC
- ?^ Function of Materials management
- ?f Function of Quality Circles
- ?æ ISO specification charts
- ?É List environmental issues handled by the company visited
- ?ë Understand the plant location of the organization selected

BOOKS FOR REFERENCE:

1. SN Chary, Production & Operations Management
2. Ashwathappa. K, Production & Operations Management
3. Alan Muhlemann, John Oaclank and Keith Lockyn, Production & Operations Management
4. K K Ahuja, Production Management
5. Everett E Adam Jr., and RonaldJEbert, Production & Operations Management
6. Dr. L. N. Agarwal and Dr. K.C. Jain, Production Management
7. Thomas E. Morton, Production Operations Management
8. Sonatakki. C.N, Production Management

4.6 LAW & PRACTICE OF BANKING

OBJECTIVES: To familiarise the students to understand the law and practice of banking.

CHAPTER- 1:	6 Hrs
Banker and Customer: General and special relationship.	

CHAPTER - 2: 12 Hrs
Paying Banker: Nature of banking business, negotiable instruments and their characteristics, payment of cheques and protection to the paying banker dishonors of cheques - grounds - payment of cheque and other instruments - mandatory function of the banker.

CHAPTER - 3: 12 Hrs
Collecting-Banker: Collection of cheques and other instruments-protection to the collecting banks under the negotiable instruments Act - endorsements on cheques. Bills of exchange - different types of endorsements - forged endorsements. Holder of value - holder/payment in due course.

CHAPTER - 4: 15 Hrs
Types of Customers and Account holders: Procedure and practice is opening and conducting the accounts of customers particularly individuals including minors - joint account holders. Partnership firms - joint stock companies with limited liability-executors and trustees-clubs and associations-joint Hindu family etc.. Step to be taken on death, lunacy, bankruptcy, winding up or in cases of garnishee orders-non-resident accounts - accounts of Govt. Departments, payment of pension-certificate of deposit

CHAPTER – 5: 5 Hrs
Services to Customers: Remittance of funds by demand drafts, mail transfers, telegraph/telex transfers - safe, y lockers safe custody of articles – standing instructions - credit cards.

CHAPTER – 6: 10 Hrs
Principles of Bank Lending: Different kinds of borrowing facilities granted by banks such as Loans, cash credit, overdraft, bills purchased, bills discounted, letters of credit, Types of securities, NPA.

SKILL DEVELOPMENT:

?2 Collect and Paste (xerox) of A/c opening form for SB A/c and Current A/c

?5 Collect and paste pay in slip for SB A/c and Current A/c.

?7 Draw specimen of Demand Draft.

? : Draw different types of endorsement of cheques.

?< Past specimen of Travellers Cheques / Gift cheques / Credit cheques.

?? List customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE:

1. Tannan M.L : *Banking Law and Practice in India.*
2. Bedi H.L & Hardikar V.K : *Practical Banking - Advance*
3. Sheldon H.P : *Practice and Law of Banking.*
4. Bedi. H.L : *Theory and Practice of Banking.*
5. Kothari N. M: *Law and Practice of Banking.*
6. Maheshwari. S.N. : *Banking Law and Practice.*
7. Shekar. K.C : *Banking Theory Law and Practice.*
8. Lan Nigam RM : *Law and Practice of a Banking.*
9. Sundaram KP.M : *Money, Banking and International Trade.* 10.Pannandikar & Mithami: *Banking in India.*
- 11.Radhaswamy & Vasudevan: *Text Book of Banking.*
- 12.Indian Institute of Bankers (Pub) *Commercial Banking Vol-I/Vol-II (part I& II) Vol- III.*

13. Varshaney: *Banking Law and Practice*.
14. Sheldon: *Theory and Practice of Banking*.
15. Devat. S.R: *Law and Practice of Banking*.
16. Dr. P.N. Reddy & H. R. Appannaiah : *Banking Theory and Practice*.
17. Ranganathachary, *Banking Law and Practice*.

4.7 : COMPUTER FUNDAMENTALS

UNIT – 1: 8 hours
 General features of a Computer. Generation of computers. Personal Computer, Workstation, Mainframe Computer and super Computers. Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia.

UNIT – 2: 10 hours
 Computer organization. Central processing unit. Computer memory primary memory and secondary memory. Secondary storage devices – magnetic and optical media. Input and output units. OMR, OCR, MICR, scanner, mouse. Modem.

UNIT – 3: 12 hours
 Computer hardware and software. Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and Computer security. Elements of MS DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of database and its applications.

UNIT – 4: 10 hours
 Word processing and electronic spread sheet. An overview of MS WORD, MS EXCEL and MS POWERPOINT. Elements of BASIC programming. Simple illustrations.

UNIT – 5: 10 hours
 Network of computers. Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications.

LIST OF PRACTICAL ASSIGNMENTS: (12 Sessions of 2 hours each)

1. System use, keyboard, mouse operations. Word pad and paint brush.
 Creating a folder and saving a document – 2 sessions.
2. Simple MS. DOS commands – 1 Session
3. Windows operating system – icons, menus and submenus, my computer – 2 sessions
4. Desktop publishing – preparation of a document using MS.WORD – 2 sessions
5. Installation of a software, virus scanning – illustrations – 1 session.
6. Spreadsheet calculations using MS.EXCEL – 1 session.
7. BASIC programming – illustrations – 1 session.
8. Internet use. Surfing, browsing, search engines, E-mail. – 2 sessions.

BOOKS FOR REFERENCE:

1. Alexis Leon and Mathews Leon (1999): Fundamentals of information technology, Leon Techworld Pub.
2. Jain, S.K. (1999): Information Technology “O” level made simple, BPB Pub.
3. Jain, V.K. (2000): “O” Level Personal Computer Software, BPB Pub.
4. Rajaraman, V. (1999): Fundamentals of Computers, Prentice Hall India.
5. Hamacher, Computer Organisation, Mc Graw.
6. Sinha, Computer Fundamentals, BPB Pub.

5.1 INCOME TAX

CHAPTER – 1:

Introduction 4 Hrs
Meaning-Income Tax Act 1961 – Basic concepts – Assessment Year –Previous year- Person- Assessee- Income- GTI –Total Income- Agricultural income (only Theory)

CHAPTER – 2:

Residential Status and its Effect on tax incidence 4 Hrs
Incomes Exempted from tax

CHAPTER – 3:

40 Hrs
Computation of income under different heads - Income from Salary - Income from House property - Profits and gains from Business or Profession - Capital gains - Income from other sources – Assessment of Individual only.

CHAPTER – 4:

4 Hrs
Set off and Carry forward of losses

CHAPTER – 5:

4 Hrs
Deductions to be made while computing the total income

CHAPTER – 6:

4 Hrs
Income tax authorities
Assessment procedure, penalties & prosecutions appeals & revisions

SKILL DEVELOPMENT:

- ?“ Collect salary details of any employee of any organization and compute taxable income, tax liability
- ? Fill up Form 16 and Income tax return
- ?b Procure Income tax return (prescribed form) complete with imaginary figures and paste it
- ?- Draw an organizational chart of IT authorities
- ?B List atleast 5 cases recently pronounced by the supreme court with the section / principle involved
- ?ø Prepare perquisites chart
- ?• Prepare exempted incomes chart

BOOKS FOR REFERENCE:

1. H.C.Mehrothra, Income Tax
2. Dr.Vinod. K.Singhania and Monica Singhania, Income Tax
3. Bhagawati Prasad, Law and Practice of Income Tax
4. Dinkar Pagare, Law and Practice of Income Tax
5. Mahesh Chandra & Goyal, Income Tax Law and practice
6. Gaur & Narang, Law and Practice of Income Tax

5.2 STRATEGIC MANAGEMENT

CHAPTER – 1: 4 Hrs
Business Policy: Definition and Importance of business policy, Purpose of business policy, objectives of business policy.

CHAPTER – 2: 6 Hrs
Utility and application of strategic management: Meaning and definition of strategy - Need for strategic management, process of strategic management, Strategic decision-making, reasons for failure of strategic management, Strategists and their role in strategic management.

CHAPTER – 3: 6 Hrs
Environment appraisal: The concept of environment, The company and its environment, scanning the environment, relating opportunities and resources based on appraisal of the environment (situation analysis - opportunities and threats analysis).

CHAPTER – 4: 8 Hrs
Strategic planning: Strategic planning process, strategic plan, - Corporate level strategies: Stability strategy, expansion strategy, merger strategy, retrenchment strategy, restructures strategy.
Business level strategy: SBU (strategic business units, cost leadership, decentralisation.

CHAPTER – 5: 16 Hrs
Implementation of strategies:
Activating strategy: - interrelationship between formulation and implementation, aspects of strategy implementation, project implementation, procedural implementation.
Structural implementation: - structural considerations, structures for strategies, Organisational design and change, Organisational systems.
Behavioural implementation: - Leadership implementation, corporate culture, corporate politics and use of power.
Functional and operational implementation: Functional strategies, Functional Plans and policies, Financial, marketing, operational and personnel dimensions of functional plans and policies.
Integration of functional plans and policies.

CHAPTER – 6: 6 Hrs
Strategy evaluation: Strategic evaluation and control, operational control, overview of management control, focus on KRA (Key Result Areas).

CHAPTER – 7: 4 Hrs
Social responsibilities
The company and its social responsibilities, social responsibility for economic growth. Social audit.

SKILL DEVELOPMENT:

- ?^ Select any organization and identify the KRAs.
- ? Select any organization and undertake SWOT analysis
- ?« List Social responsibility action initiated by any one company known to you.
- ?> Present a chart showing Strategic Management process.
- ?Ï Prepare a chart showing organisational design and change.
- ?a Summarise Social Audit process in any organization known to you.

BOOKS FOR REFERENCE:

1. R. Nanjundiah & Dr. S. Ramesh, Strategic planning and business policy .
2. Azhar Kazmi, Business policy and strategic management.
3. Michael, Business policy and Environment.
4. Verma, Business policy.
5. Ghosh P.K, Business policy and strategic Planning & management.
6. Lawrence, Business policy and strategic management.
7. Sukul Lomesh, P.K. Mishra, Business Policy and Strategic Management.
8. Sharma & Gupta, Strategic Management.

5.3 MANAGEMENT ACCOUNTING

CHAPTER – 1: Management Accounting Meaning - Nature and Scope of Management Accounting – Evolution - Cost Accounting Vs Management Accounting Vs Financial Accounting – Limitations of Management Accounting	6 Hrs
CHAPTER – 2: Fund Flow Statement Meaning of Fund and Funds Flow Analysis - Advantages of Fund Flow Statements and Limitations, preparation of Funds flow statement.	10Hrs
CHAPTER – 3: Cash flow Statement Meaning – Advantages of Cash Flow Statements and Limitations – Distinction between Fund Flow and Cash Flow Statement, preparation of cash flow statement (As per Accounting Standards)	10Hrs
CHAPTER – 4: Ratio Analysis Meaning and Significance – Classification of ratios – Capital structure ratios – Liquidity ratios – Turn over ratios – Profitability ratios – Limitations of Ratio Analysis	16 Hrs
CHAPTER – 5: Budgetary Control Meaning – Need – Objectives and Functions – Advantages and Limitations – Classification – Preparation of Cash and Flexible budget only	8 Hrs
CHAPTER – 6: Marginal Costing	10Hrs

Meaning of Marginal Costing – Marginal cost – Objectives – Advantages – Contribution – PV Ratio – Break Even Analysis – Problems on Computation of BEP (Excluding Decision Making)

SKILL DEVELOPMENT:

- ?« Collection of financial statements of any one organized for atleast 2 years
- ?> Calculation of profitability ratios, Turnover ratios, solvency ratios and liquidity ratios
- ?İ Prepare trend charts of the company chosen
- ?a Preparation of Funds flow statements with imaginary figures as per Accounting Standards
- ?ð Preparation of Cash flow statements with imaginary figures as per accounting standards
- ?, Draft an imaginary management report (General)
- ? Draft situation specific Management report.

BOOKS FOR REFERENCE:

1. Cost and Management Accounting J. Made Gowda
2. Cost and Management Accounting - Jain and Narang
3. Management Accounting Sharma and Shashi Gupta
4. Management Accounting Tools and Techniques – Vinayakam
5. Management Accounting – Prabhakara Rao
6. Management Accounting – B.S. Raman
7. M.A. Sahab, Management Accounting
8. I.M. Pandey, Management Accounting
9. Reddy & Appanniah, Essential of Management Accounting.

5.4 COMPUTER APPLICATION IN BUSINESS

CHAPTER – 1:

Data & information 6Hrs
Difference between data and information- Data processing – database – DBMS - Features of information - Types of DBMS, Data warehouse data mart - Data mining.

CHAPTER – 2:

Information system 6Hrs
Components of information system - Information system benefits - Information system and business - Information system resources - Types of information system - TPS, OAS, MIS, DSS, ESS.

CHAPTER – 3:

Basic MIS 6Hrs
Need for MIS - Definitions, functions, characteristics of MIS MIS & Decision-making.

CHAPTER – 4:

Introduction to E-Commerce 8Hrs
Internet - What is e-commerce- E-evolution - Role, elements, classification B2B, B2C etc - History. E-Commerce framework, EDI, EFT, security firewall, E-commerce applications: B to C, B-to-B

CHAPTER – 5:

Mobile Commerce 6Hrs
Meaning- characteristics, advantages and disadvantages - mobile commerce – infrastructure - wireless - standards, applications.

CHAPTER – 6:

8Hrs

Enterprise resource planning: (ERP) and Customer relationship management (CRM): meaning, definition, advantages, disadvantages. Customer relationship management (CRM): Meaning, definition, and role of CRM

CHAPTER – 7: 20Hrs
MS Office – Word, Spread Sheet, Excel, and Power point, Computerised Accounting.

SKILL DEVELOPMENT:

?ð Examples on data mining, steps involved in the introduction of DBMS understand by visiting any organization the working of ERP, CRM and computerized accounting

BOOKS FOR REFERENCE:

1. James Obrein, Management Information Systems
2. C.S.V. Murthy, E- Commerce
3. Rayport, E- Commerce
4. S Sadagopan, Enterprise resource planning (ERP)
5. S.P. Rajagopal, Computer Application in Business
6. Alexis Leon & Mathews Leon, Fundamentals of Information Technology

5.5 PROJECT MANAGEMENT

CHAPTER – 1: 15Hrs
Introduction to Project Management:
Understanding Project Management, Project Manager, Line Manager & Staff Manager, Inter Relationship & Interface, Defining Project Managers, Functional Managers & Executive's role. Project Manager as a planning agent, Project Driven Vs Non Project Driven organization, Marketing in the Project Driven Organization, Portion of the Project Manager, Programs and Projects, Product Vs Project Management, Project Life Cycles.

CHAPTER – 2: 10Hrs
Project Planning:
Identifying strategic project variables, Project planning, Statement of work, Project specifications, Milestone schedule, Work breakdown structure, Planning cycle, Management Control.

CHAPTER – 3: 10Hrs
Feasibility of the project
Technical feasibility, marketing feasibility, socio economic feasibility, Managerial feasibility and financial feasibility.

CHAPTER – 4: 5Hrs
Project Evaluation and Review techniques:
Estimating activity time, Estimating total program time, PERT/CPM planning, Crash time

CHAPTER – 5: 10Hrs
Project Management Functions:
Controlling, Directing, Project authority, Team building, Leadership, communications, Project review meetings, Management policies and procedures.

CHAPTER – 6:

10Hrs

Pricing Estimating & Cost Control:

Types of estimates & Pricing process, Labor distributions, Overhead rates, Material/Support costs, Pricing review, Budgeting for projects variance & earned value, Status reporting.

SKILL DEVELOPMENT:

• Prepare project life cycle chart.

BOOKS FOR REFERENCE:

1. Choudary S, Project Management
2. Joseph J Moder and Philips C.R., Project management
3. Joy P.K., Total Project management
4. Gopal Krishnan Rama, Text book of Project Management
5. Harold Kerzer, Project Management
6. Josh S, Project Management
7. Saprthe R.K, Project Management
8. Narendra Singh, Project Management and Control
9. Vasanth Desai, Project Management and Entrepreneurship
10. Bhavesh. M. Patel, Project Management

5.6 ENTREPRENEURIAL DEVELOPMENT

CHAPTER – 1:

10 Hrs

Entrepreneurship:

Introduction to Entrepreneur, Entrepreneurship and Enterprise - Importance and relevance of the entrepreneur - Factors influencing entrepreneurship - Pros and Cons of being an entrepreneur - Women entrepreneurs, problems and promotion - Types of Entrepreneurs - Characteristics of a successful entrepreneur - Competency requirement for entrepreneurs - Awareness of self competency and its development.

CHAPTER – 2:

10 Hrs

Small Scale Enterprises

Small scale enterprises/ Tiny industries/Ancillary industries/ Cottage Industries – definition, meaning, product range, capital investment, ownership patterns - Importance and role played by SSE in the development of the Indian economy - Problems faced by SSE's and the steps taken to solve the problems - Policies governing SSE's – Sickness in SSE's – Meaning and definition of a sick industry – Causes of industrial sickness – Preventive and remedial measures for sick industries.

CHAPTER – 3:

10 Hrs

Starting a Small Business

To understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies.

An overview of the steps involved in starting a business venture – location, clearances and permits required, formalities, licensing and registration procedures.

Assessment of the market for the proposed project.

To understand the importance of financial, technical and social feasibility of the project.

CHAPTER – 4: 10 Hrs
Preparing the Business Plan (BP)
Meaning of BP, Importance of Business Plan, Preparation of business plan. Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

CHAPTER – 5: 10 Hrs
Institutional assistance to small scale enterprises
Financial assistance through SFC's , SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's , and Tax Concessions - Assistance for obtaining raw material , machinery, land and building and technical assistance - Industrial estates – role and types

SKILL DEVELOPMENT:

- ?î Prepare a project report to start an SSI unit
- ?• Draft a letter to the concerned authority for seeking licence to start an SSI unit
- ? Prepare a format of Business plan
- ?ç A report on the survey of SSI units located in the region
- ?4 Financial assistance chart for SSI units
- ?< Any one success story of Entrepreneur of the region
- ?° List Tax concessions available to SSI units under direct and indirect taxes

BOOKS FOR REFERENCE:

1. Udai Pareek and T.V. Rao, Developing Entrepreneurship
2. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
3. Srivastava, A Practical Guide to Industrial Entrepreneurs
4. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
5. Bharusali, Entrepreneur Development
6. Vasanth Desai, Management of Small Scale Industry
7. Vasanth Desai, Problems and Prospects of Small Scale Industry
8. CSV Murthy, Entrepreneurial Development
9. Entrepreneurial Development - Dr.Anil Kumar, S.C.Poornima, Minni K.Abraham, Jayashree K.
10. Aruna Kaulgud, Entrepreneurship Management.

6.1 MANAGEMENT INFORMATION SYSTEMS

CHAPTER – 1:
Introduction to MIS: Importance of information to decision making and strategy building, information systems and subsystems, systems concepts (types of systems, system concepts applied to MIS).

CHAPTER – 2:
Conceptual foundations : The decision making process, systems approach to problem solving, support systems for planning, control and decision making.

CHAPTER – 3:

Technical foundations of IS: Introduction to computer concepts, hardware concepts and software concepts applied to IS. Database and file management.

CHAPTER – 4:

Subsystems of MIS: Transaction processing systems, DSS and GDSS, ES.

CHAPTER – 5:

Information Subsystems and Organisation: Introduction to ERP, BPR, AI, EIS, KMS and E-CRM.

**ELECTIVE I
HUMAN RESOURCE MANAGEMENT**

1. HUMAN RESOURCE DEVELOPMENT

CHAPTER – 1:

6 Hrs

HRD

Meaning of Human Resource Development and Importance of Human Resource Development, Objectives of Human Resource Development. Scope of Human Resource Development.

CHAPTER – 2:

12 Hrs

Training

Objectives of training, Importance of training, Meaning of orientation, Objectives of orientation, Difference between Orientation and training, the process of training, Methods of training –(Off the Job Training – Lectures, case study, role play, business game, in-basket exercise; On the Job - Job Instruction, Vestibule, training by Superiors, Simulation, Apprenticeship) designing training program performance appraisal as a tool.

CHAPTER – 3:

6 Hrs

Performance Appraisal:

Importance and Objectives of Performance Appraisal; Approaches to Performance Appraisal; The Evaluation Process; Tools for Performance Appraisal – Traditional Methods; Free Essay Method; Merits & Demerits of Traditional Method; Modern Methods of Appraisal and Career development; Evaluation and Problems of Appraisal; How to make Performance Appraisal a success?

CHAPTER – 4:

6 Hrs

Management Development:

Purpose and Objectives of management development, Factors inhibiting Management Development; Pedagogical approaches to and techniques of Management development – On the Job techniques: Under-study assignment or attachment method; Syndicate; Off-the-job techniques- sensitivity training; Survey feedback.

CHAPTER – 5:

8 Hrs

Organizational development

Meaning & definition of OD, characteristics of OD, goals of OD, benefits and limitation of OD, Process of OD Program, what is a change process? Types of change, managing resistance.

CHAPTER – 6: 8 Hrs
Managing Quality and productivity
Alternative work arrangements; Using quality circle programs; Total quality management programs; IT and HR - attitude surveys; Creating self-directed team; Empowering Team work; extending participative decision making, HR and business process reengineering.

CHAPTER – 7: 4Hrs
Recent trends in the area of HRD
Personality quotient, Emotional quotient, The changing view of Global HRD; The use of computer and the internet.

SKILL DEVELOPMENT:

• Visit any organization and analyse the methods of bringing prevalent in that organization and examine its pros and com.

BOOKS FOR REFERENCE:

1. Pandey, HRD
2. C.B. Mamoria & S.V. Gankar, Personnel Management
3. K. Aswathappa, Human Resource Management
4. Rao & T.V. Verma, HRD
5. Jean Marleen, Performance Oriented HRD
6. Gary Dessler, Human Resource Management
7. Sharma, Human Resources Management.

2. INDUSTRIAL RELATIONS

CHAPTER – 1: 8 Hrs
Introduction to Industrial Relation
Definition & Meaning; Concepts; Factors of industrial relations; Importance of industrial relations, Objective of Industrial Relations; Approaches to industrial relations, The Labour movement, Characteristics of Indian Labour.

CHAPTER – 2: 8 Hrs
Indian Trade Union Movement
Nature of Trade Unions; Functions of Trade Union; Objectives & Importance of Trade Union; Trade Union movement; Reasons for employees to join trade Unions; Problems of Trade Unions & Remedies; Trade Union Act 1926; Trends in Trade Union Movement in India.

CHAPTER – 3: 8Hrs
Collective Bargaining
Meaning & Definition of collective bargaining, Concept of collective bargaining, Prerequisites for collective bargaining, the collective bargaining process, Principles of Collective Bargaining, Essential conditions for the success of collective bargaining, Collective Bargaining in India.

CHAPTER – 4:
Grievance handling and Industrial Discipline:
Concept; Causes of grievance; Procedure for settlement; Indiscipline / misconduct; Causes of Misconduct; Types of punishment under standing order.

CHAPTER – 5: 6Hrs
Industrial Disputes
Meaning of Industrial Conflicts, Causes of Industrial Conflicts, Types of Industrial Conflicts - Strikes & Lockouts, Machinery for resolving Industrial Disputes under the Industrial Disputes Act 1947, Arbitration, Adjudication, Prevention of Industrial Conflicts, Approaches to Settlement of Conflict.

CHAPTER – 6: 6Hrs
Collaboration and Workers Participation in Management
Bases of collaboration, Interventions for collaboration. Meaning of workers participation in management, concepts and objectives of workers participation in management, growth and development of workers participation in management, types of workers participation in management.

SKILL DEVELOPMENT:

1. Learn the procedure involved in settling industrial disputes by visiting any organization of student's choice.

BOOKS FOR REFERENCE:

1. Daver, Personnel management and Industrial Relations
2. C.B. Memoroia –Dynamics of industrial Relations in India
3. Johnson, Introduction to Industrial Relations
4. Sharma A.M, Industrial Relations
5. Biswanth Ghosh, Personnel management and Industrial Relations
6. Bhagdiwall- Flippo, Personnel management and Industrial Relations
7. M.V. Pylee, Industrial Relations
8. Ahuja, Industrial Relations.

3. LABOUR WELFARE AND SOCIAL SECURITY

CHAPTER – 1: 10Hrs
Introduction
Concept; Definition; Merits & Demerits of Welfare Measures, Concepts of Labour Welfare & Social Security, Types of Welfare Activities, Statutory and non-statutory, Growth of Labour Welfare & Social Security in India.

CHAPTER – 2: 2Hrs
Occupational Hazards, Industrial Health & Safety
Types of accidents, Causes accidents, Prevention of accidents.
Safety, Need for safety, measures to ensure safety in organizations. The supervisors role in safety.
Health-Physical health & Mental health, Problems and remedies, noise control, job stress, communicable diseases, Alcoholism and drug abuse, Violence in the work place, Use of computers to monitor health and safety.

CHAPTER – 3: 8Hrs
Living Conditions
Living conditions of employees and his family, continual education, housing for employees, recreation for employees.

CHAPTER – 4: 10Hrs

Counseling

Meaning of counseling, Manager as a counselor, Conditions for counseling, Counselor's relation with the Counselee, Methods, Techniques and skills for counseling, Principles of personal counseling, Cordial relationship, mutual recognition, respect and congruence, empathy, Types of problems for counseling.

CHAPTER – 5: 5Hrs

Post – retirement benefits

Provident Fund- purpose of provident fund, employer obligation to employee towards provident fund, Public Provident fund, Gratuity, statutory provisions regarding gratuity, Pension.

SKILL DEVELOPMENT:

• Visit any organization and understand the various social security measures the organization has implemented.

• Also understand the significance of employee counseling

BOOKS FOR REFERENCE:

1. Arora, Labour law
2. D.Sanjeeviah, Labour problems and Industrial Developments in India.
3. Sharma A .M, Aspects of labour welfare and social security.
4. Prasanna Chandra, Labour problem Social Security and Welfare
5. Punekar and Deodhan, Labour Welfare, Trade Unionism and industrial Relations.

4. LABOUR LAWS

CHAPTER – 1: 6Hrs

Payment of wages Act – 1936 - Short title & Extent; Definitions; Responsibility for payment of wages; fixation of Wage period; Time of Payment of Wages; Mode of Payment; Deductions from wages for absence from duty, damage or loss, for services rendered, recovery of advances & loans; Maintenance of registers and records; Penalty for offences; Payment of undisbursed wages incase of death.

CHAPTER – 2: 6Hrs

Payment of Bonus Act –1965 - Short title & Extent; Definitions, eligibility for bonus, payment of minimum and maximum bonus, disqualification for bonus, set on and set off allocable surplus, time limit for payment of bonus.

CHAPTER – 3: 6Hrs

Equal remuneration Act –1976 - Short title & Extent; Definitions, duty of employer to pay equal remuneration to men and women workers for same work or work of similar nature, No discrimination to be made while recruiting men and women workers, duty of employers to maintain registers.

CHAPTER – 4: 8Hrs

ESI Act – 1948 - Short title & Extent; Definitions.

Contributions:- who is to be insured, principle employer to pay contribution in the first instance, general provisions as to payment of contributions, method of payment.

Benefits: - Sickness benefit, maternity benefit, disablement benefit, presumptions as to accidents arising in course of employment, dependants benefit, medical benefits.

Penalties: - Punishment for false statement, punishment for failure to pay contributions and prosecutions.

CHAPTER – 5: 4Hrs

Maternity benefit Act- 1961- Short title & application, Definitions, employment of, or work by, women prohibited during certain period, right to payment of maternity benefit, continuance of payment of maternity benefit in certain cases, Leave for miscarriage, leave for illness arising out of pregnancy/ delivery/ premature birth of child etc, nursing breaks.

CHAPTER – 6: 2Hrs

Payment of Gratuity Act- 1972- Short title & Extent; Definitions, continuous service, payment of gratuity, compulsory insurance, nomination, determination of the amount of gratuity.

CHAPTER – 7: 6Hrs

Factories Act- 1948- Short title & Extent; Definitions.

Health: - cleanliness, disposal of waste, ventilation, dust and fume, artificial humidification, over crowding, lighting, drinking water, toilets, spittoons.

Safety: - Fencing of machinery, work on or near machinery in motion, employment of young persons on dangerous machines, Safety officer.

Welfare: - Washing facilities, facilities for storing and drying clothing, facilities for sitting, first aid appliances canteens, shelters and restrooms, crèches.

Working hours for adults, annual leave with wages.

CHAPTER – 8: 4Hrs

Industrial Employment (Standing Orders) Act –1946 - Short title & Extent; Definitions, register of standing orders, posting of standing orders, duration and modification of standing orders, Payment of subsistence allowance.

CHAPTER – 9: 6Hrs

Minimum Wage Act – 1948 - Short title & Extent; Definitions, fixing of minimum rates of wages, minimum rate of wages, procedure for fixing and revising minimum wages, wages in kind, payment of minimum rates of wages, fixing hours a normal working day, over time.

CHAPTER – 10: 2Hrs

Employees provident funds and miscellaneous provisions act 1952: - Short title & Extent; Definitions, Employment provident fund scheme, employees pension scheme, employees deposit linked insurance scheme.

SKILL DEVELOPMENT:

?à Visit any organization and familiarise with various forms and procedures followed under various labour legislation.

BOOKS FOR REFERENCE:

1. AM Sarma, Aspects of Labour Welfare & Social Security
2. MS Pandit & Shobha Pandit, Business Law
3. P.L.Malik, Industrial Law
4. N.D.Kapoor, Industrial Law

ELECTIVE II MARKETING MANAGEMENT

1. PRODUCT AND SALES MANAGEMENT

PRODUCT MANAGEMENT

CHAPTER – 1: 6Hrs
Introduction: Product focused organisation; Market focused organisation; Functionally focused Organisation; Product management – facts Vs fiction; Changes affecting product Management; Product strategy.

CHAPTER – 2: 4Hrs
Planning: Objectives of product planning; Frequent mistakes in planning; The planning process; Components of a good plan; Product life cycle; Market Growth.

CHAPTER – 3: 4Hrs
Product Attractiveness: Factors influencing a product; Threat of new entrants, Product differentiation; Bargaining power of buyers & suppliers; Pressure from substitutes; Environment analysis; Product line management.

CHAPTER – 4: 3Hrs
Competitor Analysis: Sources of Information; Creating a product features matrix; Assessing competitors objectives & strategies; Marketing strategy; Differential advantage; Product positioning.

CHAPTER – 5: 2Hrs
Customer Analysis: Long term value of customers; Segmentation.

CHAPTER – 6: 4Hrs
New Product: Organisation for new product development; Idea generation and screening; Concept development and evaluation; Product development and evaluation; Product Modification; Product Variants; Brand Extension; Test Marketing.
Evaluation for market acceptance; Commercialisation; Product Failure.

SALES MANAGEMENT

CHAPTER – 7: 4Hrs
Selling as a career: qualities of a good salesman, Recruitment of a salesman in the organisation-product, knowledge-planned selling, Approach-pre-approach-meeting objectives-closing the sale-scales call. Customer Psychology-Buying Motives of our customer-Effective speaking-consumer product Vs Industrial products selling-trade relations-sales personnel recruitment, selection, training, remuneration.

CHAPTER – 8: 4Hrs
Role of selling in a planned economy
Sales organisation-branch set up-sales territories-role of communication in selling. Coverage plans-sales forecasting, sales quotas incentives-role of wholesalers, retailers-trade margins, discount and price structure. Selling costs- sales motivation and leadership.

CHAPTER – 9: 3Hrs
Objectives of consumer sales promotion schemes & situations in which they launched.

Direct premiums (Branded packs, price rebates, quantity deals, sampling, etc), criteria for judging the success or failure of sales promotion schemes. What sales promotion can achieve and its limitations. Consumer contests, Interim Action Premiums (Coupon, Offers, etc), self-liquidating premium. Survey of gift scheme Window display. Types of dealer promotion schemes, wholesale and retail trade (Discount and Bonus incentives for the trade Sales promotion and industrial products-merchandising and display-sales Aids and Dealers Aids.

CHAPTER – 10: 4Hrs
Reviewer of selling system sales cost control, sales force evaluation and control.

CHAPTER – 11: 4Hrs
Marketing channels
Behavioral process in marketing channels, designing channels, channels of distribution & promotion, physical distribution; factor affecting channel choice.

SKILL DEVELOPMENT:

- ?• Select any product and examine the features of channels selected for distribution
- ? Visit any organization and understand about remuneration and incentives to salesman
- ?¢ Chart out Product planning process
- ?4 Chart Sales Promotion schemes of 2 consumer durable products and 2 non – consumer durable products.
- ?° Identify a product and position it in the market – chart it out.

BOOKS FOR REFERENCE:

1. Lehmann R. Donald & Winer. S. Russell; Product Management; Tata McGraw- Hill Edition; 3rd Edition
2. Still R. Richard, Cundiff W. Edward & Govoni A P Norman; Sales Management Decisions, Strategies and Cases; Prentice Hall of India (P) Ltd; New Delhi, 2001; Eastern Economy Edition – 5th Edition
3. Ramanujam and Majumdar, Product management
4. Chunawalla S.A, Product management.
5. Aswathappa, Product management.
6. Verma & Agarwal, Sales management.
7. Acharya, Field and Sales management
8. Chunawalla, Sales Management.

2. ADVERTISING AND MEDIA MANAGEMENT

CHAPTER – 1: 4Hrs
Introduction; Changing concept of advertising: Social and economic aspects advertising in the marketing mix relation to profits. Advertising in India and abroad, Law, ethics, morality, in relation to advertising, types of advertising: consumer, institutional, retail, trade, and professional.

CHAPTER – 2: 4Hrs
Advertising Planning & Decision Making: Planning framework; marketing strategy and Situational analysis; Marketing plan; Communication process; DAGMAR approach; The advertising plan; facilitating agencies; personal selling, sales promotion, publicity, identifying prospects, Ad appeals, stimulating & expanding demand, other functions of advertising.

CHAPTER – 3: 12Hrs
Creative Execution and Judgment:
Choosing an effective advertising theme, sources of themes, means of presentation, adapting presentation according to medium
Creative Approaches: Rational; Emotional; Using an endorser; Distraction effects;
Creative Process : Coming up with an idea; Copywriting; Illustration; Layout; Types of Commercial;
Positioning and creative Interpretation
Creative Styles: Rosser Reeves- USP; David Ogilvy's – The Brand Image and William Bernbach – Execution.

CHAPTER – 4: 6Hrs
Advertising Agencies:
Origin development of the Agency, Organisation, structure, functions, departments: accounts executive, media planner and buyer, copy-writers, visualisers, studio manager, Research Executive, print production.
Client – agency relationship; the advertising budget, evaluating advertising – research. Some typical and agency problems.

CHAPTER – 5: 8Hrs
Media Strategy : Role of Media; Setting Media Budgets; Types of Media; Media- related Decision; Media Research and Advertising Decisions
Media Tactics: Media Class Decision; Media Vehicles Decisions; Media Option Decisions; Scheduling and Timing Decisions; Media Buying & Organisation.

CHAPTER – 6: 6Hrs
Advertising Regulations: Deceptive advertising; Determining Deceptive Advertising Research; Remedies; Competitors lawsuits; Self- regulations;
Advertising & Society: Effects on Values and Lifestyles; Economic Effects of Advertising; Advertising and competition.

CHAPTER – 7: 6Hrs
Global Marketing & Advertising: Globalisation of Markets; Cultural Differences; Global consumer segments; Seeking Balance; Global branding & positioning; Global advertising; Message – strategy & tactics; Media – strategy & Tactics.

CHAPTER – 8: 4Hrs
E- Advertising: Evolution; Banner advertising; Message strategy and tactics; Media strategy and tactics; Impacts of e-advertising.

SKILL DEVELOPMENT:

- ?< Examine the latest advertising strategies followed by an organization of student's choice
- ?† Select any advertisement copy from any business magazine / TV and examine the strength and weakness of the same.
- ?' List the advertising objectives on DAGMAR approach for any product of students choice.
- ?→ Collect message contents of 10 products of your choice.
- ?@ Develop Ad message for atleast 5 products of students choice.

BOOKS FOR REFERENCE:

1. Batra, Rajeev; Myers, G. John; Aaker, A. David; Advertising Management, 5th Edition; Prentice – Hall of India (P) Ltd.; February 2000.
2. Chunnawalla. S.A. & Sethia K.C.; Foundations of Advertising – Theory & Practice; Himalya publishing house; Mumbai; 5th revised Edition; 2002
3. Mohan, Manendra; Advertising Management – Concepts and Cases; Tata McGraw- Hill Publishing Company Ltd.; New Delhi; 8th reprint; 1995
4. Sontakki, Advertising.

3. CONSUMER BEHAVIOUR

- CHAPTER – 1: 2Hrs
Introduction to Psychology: its role in marketing & application to buyers behaviour.
- CHAPTER – 2: 2Hrs
Introduction to Consumer Behaviour: A managerial and consumer perspective; Consumer rights and social responsibility; current trends in CB; Models of CB.
- CHAPTER – 3: 4Hrs
Consumers Decision Making: Decision-making process in buying, Consumer information process; psychological problems association with the prices, distribution, point of purchase and window display, packaging, labeling, brand evaluation.
- CHAPTER – 4: 6Hrs
Consumer learning, habit and brand loyalty:
Consumer learning – classical conditioning; instrumental conditioning; cognitive learning
Habit – Habitual purchasing behaviour; function of a habit; Habit v/s complex decision making.
Brand loyalty – approaches to brand loyalty; brand loyal consumer; brand loyalty & product involvement.
- CHAPTER – 5: 10Hrs
Consumer Perception & Attitudes
Perception – Consumer characteristics affecting perception; perceptual selection; Perceptual Organisation & Interpretation; Price perception
Attitude – Nature of consumer attitudes; role of attitudes in developing marketing strategy;
Relationship between beliefs and attitudes; Relationship between attitudes & behaviour;
attitudes reinforcement & change; attitude change before purchase, during purchase and post purchase.
- CHAPTER – 6: 6Hrs
Consumer characteristics & lifestyles:
Demographics & social class- demographic fragmentation of Indian market; social class influences
Lifestyles and personality influences – changing lifestyle trends of Indian consumers; measuring lifestyles; Personality- theories relating to personality; limitations.
- CHAPTER – 7: 6Hrs

Consumer and cultural influences: Need of Culture; cultural influence; Cultural values and CB; Culture & Product; Social implications.

CHAPTER – 8: 8Hrs

Group influence:

Reference group; Types of reference group; Nature of reference groups and its influence on consumers

Household decision making – Types of household; decision making and societal implication of family influence.

Group communications: Word of mouth and diffusion process.

CHAPTER –9: 6Hrs

Business to Business buying behaviour: Introduction; evolution; scope; difference between consumer buying behaviour and industrial buying behaviour; Buying decisions; Decision makers; sources of information.

SKILL DEVELOPMENT:

- ?ç Interview some customers of FMCG and analyse their pre and post purchase behaviour
- ?4 Conduct a formal interview with local retailer and ascertain how die we segment the consumer
- ?° Gather information and chart out the differences between industrial buying behaviour and consumer buying behaviour
- ?ö Prepare a chart of decision making process
- ? Ascertain through survey the brand loyalty of consumers for any FMCG.
- ?< Illustrate how social class differences influence (a) Product lines & styles (b) Advertising media selection

BOOKS FOR REFERENCE:

1. Assael Henry; Consumer Behaviour and Marketing Action; Asian Books (P) Ltd; Thomson Learning; 6th Edition;
2. Nair. R. Suja; Consumer Behaviour in Indian Perspective; Himalaya Publishing House; Mumbai; First Edition Reprint 2002
3. Bennett, Consumer Behaviour
4. David Loudon, Consumer Behaviour
5. Jay D. Lindquist & M. Joseph Sirgy, Consumer Behaviour, Biztantra Pub.

4. MARKETING OF INDUSTRIAL GOODS

CHAPTER – 1: 8 Hrs

Industrial goods:

Meaning, Characteristics, Classification.

The industrial marketing system Participants, Channels. The relationships: Contract of sale. Franchise. Agreements. Loyalty confidence Reciprocity.

CHAPTER – 2: 8 Hrs
The Demand for Industrial Goods
Demand and Product characteristics- Market Levels and Product types - Major equipment - minor and accessory equipment - Fabricating and components parts - Process materials - operating supplies - Raw materials -Derived demand - Influence of ultimate buyer - Influence of business conditions _ influence of financial conditions and Price.

CHAPTER – 3: 4 Hrs
The Industrial Customer
Buyer Motives: The core variable: Quality Service, Price Savings Assurance of Supply Buyer temperament.

CHAPTER – 4: 6 Hrs
Purchasing System
Documentation Supporting investigation - Sorting I and appraising altenlative Competitive bids. I Negotiation make or buy Selecting the alternatives, I Order placement Follow- up and Expediting

CHAPTER – 5 6 Hrs
Marketing Intelligence
The Marketing Intelligence System - the Search process - the Evaluation Process - Measuring marketing performance.

CHAPTER – 6: 16 Hrs
Marketing Strategy
Product sand Service component, The Channel Component - Channel logistics, The price Component - Firm Size - product type - product Life Cycle the Cost Factor - pricing Decisions - Pricing policies, The Promotional Component.

CHAPTER – 7: 2 Hrs
Marketing Control
Performance Standards and instruments of control.

SKILL DEVELOPMENT:

?I Identify the Core Variables affecting demand for any industrial goods selected by the student.

?< Understand the features of industrial goods on a comparative basis with that of FMCG.

BOOKS FOR REFERENCE:

1. Richard M.Rill Ralph S., Alexander and James S. Cross - Industrial marketing.
2. Robert R.Reeder - Edward I G.Brierty and betty h. Reeder, I Industrial marketing.

ELECTIVE III

FINANCE

1. FINANCIAL MARKETS AND SERVICES

CHAPTER – 1: 6Hrs
Financial Market: Introduction; Structure of Financial System; Equilibrium in Financial markets; Overview of Indian Financial System; Financial System & Economic Development; Contribution of Development Financial Institutions.

CHAPTER – 2: 6Hrs
Non-Banking Financial Intermediaries:
Investment & Finance Companies; Merchant banks; Hire purchase finance; Lease Finance; Housing Finance; Venture capital funds and Factoring.

CHAPTER – 3: 10Hrs
Markets
Call Money Market – Introduction, Meaning, Participation & location, Call rates and recent development & Trends;
Treasury Bill Market – Introduction, Types of bills;
Commercial bill Market – Bill of exchange, size of bill market in India, Bill market rates;
Market for commercial paper and Certificate of deposits- Introduction, Meaning of commercial paper, meaning of certificate of deposits;
Discount Market – Introduction; Discounting service; Discount & finance house of India;
Market for financial guarantees & government securities.

CHAPTER – 4: 8Hrs
SEBI
Objectives of SEBI; Organization; Functions and functioning of SEBI; Powers of SEBI; Role of SEBI in Marketing of Securities and Protection of Investor Interest.

CHAPTER – 5: 6Hrs
International Dimensions of Financial Markets
Introduction; Foreign exchange market; Exchange rates.

CHAPTER – 6: 8Hrs
Mutual funds – Introduction; Concept; scope of MF; Market evolution; Impact of growth on the economy; Types of mutual fund services, elements of MF marketing, Product design pricing, promotion and distribution of products, customer service; marketing & market research, strategic marketing plan; Credit rating- Meaning, Functions and Benefits of Credit rating.

CHAPTER – 7: 6Hrs
Recent trends in financial services
Personalised banking – ATM; tele-banking & e-banking; Credit & Debit Card; customization of Investment portfolio; Financial advisors.

SKILL DEVELOPMENT:

?† Select any Mutual Fund and examine the various closed and open-ended schemes offered.

?’ Visit any Housing Finance Companies and analyse the features of various financing schemes offered.

?– Prepare a chart showing structure of financial markets.

?@ Prepare a chart showing instruments of financial markets.

?e Prepare a chart of ratings given by different rating agencies.

?ø Prepare a chart showing Foreign exchange rates of atleast any two countries for one month.

BOOKS FOR REFERENCE:

1. Gordan and Natarajan K, Financial market and Services
2. Tony Martin, Financial Services
3. Christine and Ennew, Market Financial Services
4. Jordan, Emerging Scenario of Financial Services
5. Advani V.K, Marketing of Financial Services
6. Gordan and Natarajan, Emerging Scenario of Financial Services
7. Sharma, Financial Services

2. INTERNATIONAL FINANCE

CHAPTER – 1: 8Hrs

International Finance:

Introduction; Meaning of International Finance; Issues involved in International business & Finance; Currency to be used; Credit worthiness; Methods of Payment; Foreign Exchange Markets.

CHAPTER – 2: 10Hrs

International Financial Management:

Meaning of International Financial Management; Scope and significance of International financial management in international markets.

CHAPTER – 3: 12Hrs

Foreign Exchange rates:

Need for foreign exchange; Foreign exchange market and Market intermediaries; Exchange rate determination; Foreign Exchange risk - Forwards, futures, swaps, options, Valuation of future and swaps- valuation of options and efficiency of the exchange market; Convertibility of a rupee and its implications.

CHAPTER – 4: 10Hrs

International Financial Markets:

Foreign Institutional Investors- Regulations governing Foreign Institutional Investors in India; Global Depository Receipts - Meaning; Foreign Direct investment (FDI) – growth of FDI; Advantages and Disadvantages of FDI to Host country and home country.

CHAPTER – 5: 8Hrs

International Risk Management:

Types of Risk – Political, commercial, exchange control restrictions on remittances, differing tax system, sources of funds, exchange rate fluctuations, different stages and rates of inflation, risks of non-payment; Managing Risk.

SKILL DEVELOPMENT:

?B Visit any authorized dealers establishment and understand the activities of dealing room

?s Analyse the trend of FDI into India during the preceding five years.

BOOKS FOR REFERENCE:

1. Mittal, International Rate Foreign Exchange Tariff policy

2. Venkataraman K.V, Finance of Foreign Trade and Foreign Exchange
3. Chowdery, Finance of Foreign Exchange
4. Chowdery, Finance of Foreign Trade and Foreign Exchange
5. Balachandran, Foreign Exchange.
6. Srivastava, International Finance.

3. COST AND FINANCIAL ANALYSIS

CHAPTER – 1: 4Hrs
 Understanding Financial Statements – Basic Concepts – Presentation of Information- Statement form; Full Disclosure – Generally Accepted Accounting Principles.

CHAPTER – 2: 6Hrs
 Financial Statement Analysis – Tools of Analysis – Units of Measurement – Comparison of Balance Sheet – Common size analysis – Horizontal & Vertical Analysis – Time Series Analysis – Development Analysis – Divisional Performance.

CHAPTER – 3: 14Hrs
 Comparison of Income Statements – Profit and Loss Ratios – Cost of Sales to Sales – Vs – Expenses to sales – analysis of variation in income – statement of causes of financial changes – increases / decreases in working capital – cash flow and fund flow analysis.

CHAPTER – 4: 8Hrs
 Financial Forecasting – sales forecast – projected income statement and balance sheet – formula method of forecasting additional fund needs – corporate financial planning models.

CHAPTER – 5: 8Hrs
 Cash flow analysis – cost – volume – profit analysis – graphic and algebraic analysis – differential cost analysis for managerial decisions – variance analysis.

CHAPTER – 6: 6Hrs
 Cost Analysis – applications and limitations – limitations of financial analysis – forecasting financial requirements to reflect price level changes – assessment of business risk.

CHAPTER – 7: 8Hrs
 Standard Costing – Meaning – Standard Cost – Types of Standard – Objectives of Standard Costing – Advantages and limitations of Standard Costing.
 Element wise classifications of Variances – Material, Labour and overhead variances (Theory only)

CHAPTER – 8: 12Hrs
 Analysis and Interpretation of Financial Statements
 Meaning – Need – Analysis – Comparison – Interpretation – Objectives – Types of Analysis – Techniques of Financial Statement Analysis – Comparative Financial Statement Analysis – Common Size Statement Analysis – Trend Analysis.

SKILL DEVELOPMENT:

?ø Select published accounts of any public limited company and analyse the financial strength and weakness bring tools of financial analysis

BOOKS FOR REFERENCE:

1. Gupta R.L, Financial Statement Analysis
2. Kennedy D. Riralph, Financial Statements

4. PORTFOLIO MANAGEMENT

CHAPTER – 1: 6Hrs
Introduction and scope of the subject, economic meaning and significance of savings, investments, speculation, gambling, and arbitrage mechanisms.
Comparison between investment and speculation and its significance in Indian financial system.

CHAPTER – 2: 6Hrs
Various investment means available in India, characteristic features of financial instruments, - risk, return, security, maturity, and optional features. Finance vs. investments- interactive decision elements.

CHAPTER – 3: 10Hrs
Profile of Indian investors and factors influencing investment decisions, financial positions, tax positions, risk perception and attitude.
Introduction to systematic and non-systematic risks.

CHAPTER – 4: 10Hrs
Mathematics of financial evaluation, discounting, compounding, annuities, present value, and yield calculations.

CHAPTER – 5: 8Hrs
Investment opportunities: company shares, debentures, bonds, convertible securities, hybrid securities, fixed deposits, gilt- edged securities, post office schemes, company and public provident funds, unit trust of India, LIC, real estate, and insurance schemes.

CHAPTER – 6: 8Hrs
Stock exchanges: role and importance trading in securities, Badla transactions, and brokers and jobbers impact of certain economic indicators on the stock market. Role of SEBI in brief.

CHAPTER – 7: 6Hrs
Introduction of portfolio theory- contribution of William Sharpe and Harry Markowitz, -mutual funds and Investment avenues.

CHAPTER – 8: 6Hrs
Features of capital markets and functioning, new issues market, IPOs, valuation of issues fundamental and technical considerations – role of SEBI.

SKILL DEVELOPMENT:

- ?@ Select any debentures of noted in any Stock Exchange and compute YTM.
?< Examine the investment opportunities available to an employee.

?e Understand the procedure involved in buying and selling shares and debentures through a line and demat schemes.

BOOKS FOR REFERENCE:

1. Fisher & Jordan, Investment Management.
2. Avadhani, Security Analysis and Portfolio Management.
3. Bhalla, Security Analysis and portfolio management.
4. Puneethavathi & Pandian, Security Analysis and Portfolio Management.
5. Prasanna Chandra, Managing Investments.

**ELECTIVE IV
INFORMATION TECHNOLOGY MANAGEMENT**

1. E-BUSINESS AND WEB DESIGNING

CHAPTER – 1: 4Hrs
Basic Internet Fundamentals: Contents:
Overview of the Internet, Browsing the World Wide Web, Electronic Mail, Basics of using FTP, Newsgroups, Searching the Web to gain Market Intelligence, Internet Technology.

CHAPTER – 2: 12Hrs
e-Commerce:
General framework of electronic commerce. Electronic commerce and media convergence, multimedia content of e-commerce application, client server architecture of electronic commerce.
The network infrastructure of e-commerce, components of the information highway. The intranets a network infrastructure, Internet, Intranets and Extranet connectivity options.
Network security and firewalls, client server network security problems and emerging safety solutions.
Electronic commerce and the World Wide Web, electronic commerce application service. Different types of e-commerce application, World Wide Web architecture.
EDI Layered architecture, Information flow with critical EDI. EDI application in international trade, EDI in finance transaction,. How EDI work
Electronic payment systems. Characteristics of electronic cash, smart cards and electronic payments. System credit card. Electronic payment system.

CHAPTER – 3: 12Hrs
Electronic Customer Relationship Management:
What is CRM
What is a Customer
How do we define CRM
What is CRM technology
Putting the ‘e’ in eCRM
CRM and eCRM : Difference
The Web Experience
The features of eCRM
Is eCRM really separate
Using popular eCRM software

CHAPTER – 4: 12Hrs
 Mobile Commerce:
 Objectives of the course, What is m-Commerce? Context and Trends: The Forces Behind m-Commerce, Simple reference model, Signal propagation
 Basic multiplexing techniques, including SDMA, FDMA, TDMA, CDMA
 Basic modulation techniques, Medium Access Control Algorithms.

CHAPTER – 5: 10Hrs
 Web Designing using HTML,DHTML

BOOKS FOR REFERENCE:

1. Peter Loshin, E-Commerce
2. C.S.V. Murthy, E-Commerce
3. Shuretty – E-Business with Net Commerce
4. Schiller, Mobile Communication
5. Greenbeg, CRM At The Speed of Light
6. Krishnamurthy & Sandeep, E-Commerce, Text & Cases

2. ENTERPRISE RESOURCE PLANNING

CHAPTER – 1: 2Hrs
 Introduction to ERP

CHAPTER – 2: 4Hrs
 Evolution of ERP from Bill of Materials. MRP-I,MRP-II,MRP-III and DRP. ERP as a front-runner among automated “Enterprise Management System”.

CHAPTER – 3: 4Hrs
 Hierarchy of strategies in an enterprise. Consistency of the goals of ERP with the goals of the enterprise.

CHAPTER – 4: 3Hrs
 Information architecture, ERP architecture based in client server model and information criteria.

CHAPTER – 5: 7Hrs
 ERP – A manufacturing perspective: Review and understanding of the basic business processes.
 Procurement, inventory control and stores control.
 Production and operation
 Finance and accounts, ROI and working capital models
 Costing functions and systems
 Marketing and market research function and systems
 Personnel and payroll function and systems
 Make to order, make to stock, assemble to stock, engineer to order & configure to order.

CHAPTER – 6: 5Hrs
 Data Warehousing and Data Mining – brief description

CHAPTER – 7: 5Hrs
 Successful implementation of ERP-Key factor analysis

CHAPTER – 8: 5Hrs
 Benefits of ERP in an enterprise – Overview of CRM

CHAPTER – 9: 5Hrs
Roles of vendors, consultants and techno structure

CHAPTER – 10 5Hrs
Renowned ERP vendors and their market shares

CHAPTER – 11: 5Hrs
Success and failure analysis – user organization perspective.

BOOKS FOR REFERENCE:

1. S. Sadagopan, Enterprise Resource Planning
2. Leon & Leon, Enterprise Resource Planning
3. Greenberg, CRM At The Speed of Light

3. DATABASE MANAGEMENT SYSTEM

CHAPTER – 1: 10Hrs
Introduction: Overview of database management, Advantages of DBMS over File Management system.
Describing and storing data in a DBMS – The Relational Model, Levels of Abstraction in a DBMS, Data Independence, Data Isolation, Data Inconsistency.

CHAPTER – 2: 8Hrs
Entity-Relationship Modeling: Entities, Relationships, Mappings, Dependency Constraints and Notations.

CHAPTER – 3: 8Hrs
Relational Data Model: Operations on tables, Constraints, Advantages of Relational Model, Integrity Rules, Representing Relational Database schemas.

CHAPTER – 4: 8Hrs
Relational Database design; Database design, Anomalies –insertion, deletion and update anomalies, Objectives of normalization, Various normal forms –1NF, 2NF, 3NF, Decomposition Process, Mapping ER model into relational structures.

CHAPTER – 5: 8Hrs
Data on Disk: Physical storage, storage hierarchy, disks, files, operations of files.

CHAPTER – 6: 8Hrs
Security and Integrity: aspects pertaining to Databases.

BOOKS FOR REFERENCE:

1. Elmassri, Fundamentals of Database System
2. C.J. Date, An Introduction to Database System
3. Abraham Silberschatz, Henry. F. Korth, S. Sudarshan, Database System Concepts.

4. SYSTEM ANALYSIS AND DESIGN

- CHAPTER – 1: 7Hrs
Systems concepts and the information systems environment: The system concept, Definition, Characteristics of a system, Elements of a system, Types of system - Information Systems: A review of fundamental information systems, Transaction processing systems, Management Information systems, Decision support systems, Expert systems, Office information systems, Personal and workgroup information systems. systems owners, systems users, systems designers, systems builders, Building blocks, expanding the Information System, Framework - building blocks of data process, interfaces, geography.
- CHAPTER – 2: 6Hrs
The role of system analyst: Definition, preparing career as a system analyst, interpersonal skills, Technical skills, System analysis and design skills, Multifaceted role of system analyst, Analyst user interface, the place of analyst in the MIS organization.
- CHAPTER – 3: 5Hrs
Process Modeling: The tools for structured analysis, DFD, Data Dictionary, Decision trees, Structured English, Decision tables, Computer Aided System Engineering (CASE), A CASE tool frame work, Architecture, benefits.
- CHAPTER – 4: 5Hrs
Feasibility and Cost Benefit Analysis: Feasibility considerations, steps in feasibility analysis, Feasibility report, Cost –benefit analysis, categories, data analysis, Procedure for cost benefit determination, The system proposal.
- CHAPTER – 5: 6Hrs
System Design: Strategies for system design, introduction to structured design, Information Engineering, Prototyping, JAD, RAD, object-Oriented design, structured design, logical and physical design, structured design, Form-driven methodology, major development activities, personnel allocation, audit considerations, processing controls and data validations, audit trial and documentation control.
- CHAPTER – 6: 6Hrs
Input/Output and User Interface design: Methods and issues for data capture and input: data capture, data entry, data input, Modern input methods, Batch versus On-line inputs,. Internal controls for inputs, GUI controls for input design, Principles and guidelines for output design, Types of outputs, Media and formats, System user issues for output design.
- CHAPTER – 7: 5Hrs
System testing: Testing, Different methods, Nature of test data, Test data, Test plan, activity networks for system testing.
- CHAPTER – 8: 5Hrs
Implementation and software maintenance: Conversion, Activity network for conversion, Post implementation review, software maintenance, Primary activities of a maintenance procedure, Reducing maintenance costs.
- CHAPTER – 9: 5Hrs
Security, Disaster/Recovery and Ethics in system development: System security, Definitions, Threats to system security, Control Measures, disaster/recovery planning ethics in system development, ethics codes and standards of behavior.

BOOKS FOR REFERENCE:

1. Whitten, System Analysis and Design Methods.
2. Elias M. Awadh, System Analysis and Design.
3. I.T. Hawryszkiewicz, Introduction to SAD.

**ELECTIVE V
INSURANCE****1. PRINCIPLES AND PRACTICE OF LIFE INSURANCE**

CHAPTER – 1: 8Hrs
Introduction to Life Insurance. Principles of Life Insurance. Life insurance products, pensions and annuities.

CHAPTER – 2: 8Hrs
Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

CHAPTER – 3: 8Hrs
Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA.

CHAPTER – 4: 10Hrs
Product development, design and evaluation - Marketing and Servicing, Tax planning and legal framework - Personnel Financial planning and insurance - Various Distribution Channels.

CHAPTER – 5: 8Hrs
Claim Management - Claim Settlement - Legal Framework - Third party Administration - Consumer Protection Act.

CHAPTER – 6: 8Hrs
Re-Insurance in Life Insurance - Retention Limits - Methods of re-insurance.

SKILL DEVELOPMENT:

- ¾ Visit any branch of LIC and understand various policies offered with benefit and elements.
- ¾ Understand the procedure involved in evaluation of a proposal form and final issue of policy.

BOOKS FOR REFERENCE:

1. Principles and Practice of Life Insurance
2. Raman B, Your Life Insurance Hand Book
3. Mishra M.M, Insurance Principles and Practice
4. William C. Arthur, Risk Management and Insurance
5. Gopal Krishnan, Liability Insurance
6. Mishra M.N, Insurance
7. Mishra M.N, Insurance Principles and Practice
8. Bose A.K, Engineering Insurance
9. Fire Insurance Claim – Insurance institute of India
10. Life Insurance Claims - Insurance institute of India
11. Gupta S.P, Liability and Engineering Insurance
12. Gupta S.P, Marine Insurance Claim

2. PRINCIPLES & PRACTICE OF GENERAL INSURANCE

CHAPTER – 1: 8Hrs
Introduction to General Insurance. Principles of General Insurance. Personal general insurance products (fire, personal liability, home owners, personal motors, miscellaneous insurance). Terminology, perils, clauses and covers. Risk assessment, underwriting and ratemaking. Product design, development and evaluation. Less Provincial control.

CHAPTER – 2: 8Hrs
Risk management - Introduction to Risk and Insurance - Risk Identification, evaluation and management techniques, risk avoidance, retention and transfer. Selective and implementation of techniques. Various terminology, perils, clauses and risk covers.

CHAPTER – 3:
Insurance industry - Brief History - Pre Nationalization and post nationalization - Current scenario.

CHAPTER – 4: 6Hrs
Principle of Insurance and Insurance Contracts. Special features – Indemnity, subrogation, Contribution - Co-Insurance.

CHAPTER – 5: 8Hrs
Various Branches in General Insurance (Brief History) – Fire - House owners insurance – Marine Engineering - Personal Motor Insurance – Aviation - Personal Liability - Agriculture - Miscellaneous insurance.

CHAPTER – 6: 8Hrs
Loss Prevention - Cargo Loss prevention - Consequential loss (Fire, etc)

CHAPTER – 7: 6Hrs
Re-Insurance - Functions, Methods of re-Insurance - Legal requirements and procedures.

SKILL DEVELOPMENT:

Visit any branch of General Insurance establishment and familiarise with the features of policies offered.

BOOKS FOR REFERENCE:

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance institute of India
6. Life Insurance Claims - Insurance institute of India
7. Gupta S.P, Liability and Engineering Insurance
8. Gupta S.P, Marine Insurance Claim.
9. Pandey, Principles and Practice of Insurance.

3. ACTUARIAL SCIENCE

CHAPTER – 1: Introduction Actuarial principles. Elements of compound Interest and elementary theory of probability, Demography. Principles of ratemaking. Data required for rate making. Insurance models. Application of Models.	8Hrs
CHAPTER – 2: Premium and General Principles - Survival distributions and life tables. Loss and express research. Valuation - Sources of surplus and its distribution - Credibility theory and less distribution - Interests and life contingencies.	10Hrs
CHAPTER – 3: Loans & Advances - Loans on Insurance - Types of loans - Redemption of loans - Sinking funds - Interest yield on the funds in the life Office.	8Hrs
CHAPTER – 4: Construction of Mortality table and its sources.	6Hrs
CHAPTER – 5: Tax Planning - Personal finance – Taxation	8Hrs
CHAPTER – 6: The social security schemes.	6Hrs
CHAPTER – 7: Group Schemes - Background and history - Group underwriting - Group gratuity - Super Annuation Scheme.	6Hrs

SKILL DEVELOPMENT:

- ? Visit any branch of LIC and familiarise with loan facilities available to policy holders.
- ?1 Examine the Life insurance as a means of tax planning and risk coverage.

BOOKS FOR REFERENCE:

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance institute of India
6. Life Insurance Claims - Insurance institute of India
7. Gupta S.P, Liability and Engineering Insurance
8. Gupta S.P, Marine Insurance Claim

4. RISK MANAGEMENT

CHAPTER – 1: 8Hrs
Introduction to risk management- elements of uncertainty & risk in wealth creation- definition, types and various means of managing risk – limitations of risk management.

CHAPTER – 2: 6Hrs
Sources of risk and exposure, pure risk and speculative risk, acceptable and non- acceptable risks, static and dynamic risk, various elements of cost of risk.

CHAPTER – 3: 10Hrs
Corporate risk management, riskiness of returns, -approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

CHAPTER – 4: 8Hrs
Derivatives as risk management tools, features of hedging, forward, future, options and swaps. And hybrid debt securities. Classification of derivatives, important features of derivatives.

CHAPTER – 5: 6Hrs
Hedging risks with currency and interest rate futures, index future and commodity futures.

CHAPTER – 6: 6Hrs
Fundamental concepts of options and hedging and risk management with options.

CHAPTER – 7: 3Hrs
Fundamentals of currency and interest rate swaps- risk management with swaps.

CHAPTER – 8: 3Hrs
Fundamental concepts of VAR approach and insurance.

SKILL DEVELOPMENT:

?1 Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools.

BOOKS FOR REFERENCE:

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance institute of India
6. Life Insurance Claims - Insurance institute of India
7. Gupta S.P, Liability and Engineering Insurance
8. Gupta S.P, Marine Insurance Claim

ELECTIVE VI ADVERTISING AND MEDIA MANAGEMENT

1. ADVERTISING

CHAPTER – 1: 10Hrs
Changing concept of advertising : Social and economic aspects advertising in the marketing mix.

Relation to profits. Advertising in India and abroad. Law, ethics, morality in relation to advertising. Types of advertising: Consumer, institutional, retail, trade, and professional.

CHAPTER – 2: 10Hrs
Advertising, marketing, personal selling, sales promotion, publicity, Identifying prospects, complete consumer definitions consumer motivations and advertising appeals stimulating & expanding demand other functions of advertising.

CHAPTER – 3: 10Hrs
Choosing an effective advertising theme, Sources of themes mean of presentation, adapting presentation according to medium. Rosser Reeves, USP, David Ogilvy's and Stephen King's Brand Image theory, positioning, purchase proposition and creative Interpretation.

CHAPTER – 4: 10Hrs
Origin development of the Agency, Organisation, structure, functions, departments: Accounts Executive, Media Planner and Buyer, Copy-writers, visualisers, Studio Manager, Research Executive, print production, Ad agency, skills, services.

CHAPTER – 5: 10Hrs
Origin and development of Ad Campaign, strategy, purchase proposition, creative development presentation. Client agency relationship. Advertising manager and his department, the advertising Budget, Evaluating advertising – research. Some typical and agency problems.

SKILL DEVELOPMENT:

?1 Understanding the functioning of advertising agency, types of advertising, social and economic aspects of advertising.

BOOKS FOR REFERENCE:

1. Mohan Mahindra, Advertising Management.
2. Sandge S.H, Advertising Theory and Practice
3. Percy & Larry, Advertising and Promotion Management.
4. Verma & Agarwal, Advertising Management.
5. Rajeev Bhatra, Advertising Management.
6. Chunawalla & Sethia, Foundations of Advertising Theory and Practice.
7. Kazmi S.H.H & Sathish K. Batra, Advertising and Sales Promotion.
8. Roger Barton, Hand Book of Advertising Management.
9. Chunnawalla S.A., An Introduction to Advertising and Marketing Research.
10. Sontakki, Advertising.

2. MEDIA MANAGEMENT

- CHAPTER – 1: 4Hrs
Media management: Meaning, Role of media in advertising, different medias of advertising.
- CHAPTER – 2: 6Hrs
Inter personal media, Types and Kinds, Effectiveness and appeal, Feedback and inter personal media, Talk, Discussions and Meetings.
- CHAPTER – 3: 4Hrs
Conferences and Press conferences, Employee relations, Relations with internal and External public, Community relations.
- CHAPTER – 4: 4Hrs
Print Media: Characteristics, Use of Print media in public relations, Types and kinds of print media, Their effectiveness and appeal, Features and Photographs in print media.
- CHAPTER – 5: 6Hrs
House journals, Specialized Newspapers and Magazines, Sections and supplements, Advertisements.
- CHAPTER – 6: 6Hrs
Radio as medium of public relations, Use of radio in public and private sectors public relations, Effectiveness of radio in PR, Advertisements in radio, Features and other programs.
- CHAPTER – 7: 6Hrs
Television as a medium of public relations, Effectiveness and use in public and private sectors, public relation program and advertisements, News, Views and Features.
- CHAPTER – 8: 4Hrs
Film as a medium of public relations, Effectiveness, Appeal, Characteristics, Feature film, Documentary, Slides, Comic strips and Advertisements in film media.
- CHAPTER – 9: 4Hrs
Direct mailing, Press release, Press notes, Miscellaneous media and tools of PR.
- CHAPTER – 10: 6Hrs
Advertising as a tool of PR, Advertising media, Publication, Characteristic, ORG, NRS Studies, Classification of Newspapers, Types of Newspaper, Broadcast media, Television, Video Advertising, Films, Position Media, Hoarding signs, Factors affecting selection of media for advertising.
- SKILL DEVELOPMENT:**
?m Make a comparative analysis of strengths and weaknesses of various media.

BOOKS FOR REFERENCE:

1. Agghart, The Media Line
2. Naidu C.S., Media and Communication Management
3. Michael Goodwin, Making Multimedia Work
4. Scott Garold Anthony, Visual Basic for Multimedia
5. Raidu Nageshwar, Mass Media Law and Regulations

3. MULTIMEDIA

CHAPTER – 1:	
Introduction to Multimedia	4 Hrs
Examples of current multimedia titles and applications. Overview of elements. What is multimedia?	
CHAPTER – 2:	4 Hrs
Typefaces and Graphics	
Exploration of type styles, graphic modes and formats. Graphic Elements and user interface considerations.	
CHAPTER – 3:	5 Hrs
Preproduction & Presentation Graphics	
Beginning preproduction and outlines. Graphic imports and page layout. Content flow.	
CHAPTER – 4:	5 Hrs
Desktop Publishing	
Page Layout part 2. Import text, graphics, libraries. Style sheets and formats. Text and style considerations. MS Multimedia Extensions.	
CHAPTER – 5:	5 Hrs
Production Planning and Design	
Research, content flow. Content acquisition. Multimedia team management using project management software. Budgeting considerations. Element and resource lists.	
CHAPTER – 6:	5 Hrs
User Interface Design & Graphics II	
Backgrounds, buttons, presentation elements. Interface design.	
CHAPTER – 7:	5 Hrs
Hypermedia Authoring	
Common authoring schemes. Links and return scripts. Layout and flow. Making media elements work. Technical considerations and troubleshooting.	
CHAPTER – 8:	5 Hrs
Multimedia Sound & File Compression	
Sound types, formats. Digitizing considerations. Sampling technology and concepts. Element use and psychological impact. Sound in video. File compression technology and concepts.	
CHAPTER – 9:	5 Hrs
Video Production	
Video concepts and formats. Lighting, staging. Storyboards. IIT video procedures and limitations. Digital Video preview.	
CHAPTER – 10:	5 Hrs
Digital Video	
Introduction to digitization. Sizing, looping. Technical limitations and formats.	
CHAPTER – 11:	6 Hrs
Animation	

Animation science and uses. Demonstration of 2D, 3D concepts. Motion graphics do's and don'ts.

CHAPTER – 12: 6 Hrs

Authoring Part 2: HTML & Web-Based Multimedia

Internet design and considerations. Simple HTML commands. Internet resources for development.

BOOKS FOR REFERENCE:

1. Techmedia, Adobe web designing and publishing unleashed.
2. Orielly, Internet in a nut shell.
3. Michel Goodwin, Making Multimedia Work.
4. Scott Garold and Anthony Potts, Visual basic For Multimedia.
5. Borhdan, Multimedia Networking.
6. Raidu Nageshwar, Mass Media Law and Regulations.
7. Shuman, Multimedia in Action.

4. TECHNOLOGY AND ADVERTISING

CHAPTER – 1: 6 Hrs

Introduction and overview of technology and advertising.
Web advertising, virtual advertising, Banner advertising.

CHAPTER – 2: 8 Hrs

Introduction to new media technology in the present time, Explanation of terms in new media technology.

CHAPTER – 3: 8 Hrs

Explanation of the technology of networks, telephony, the Internet, and communication system theory.

Introduction to campus media and computing resources.

CHAPTER – 4: 6 Hrs

Media technology developments in historical perspective, Comparative analysis of media.

CHAPTER – 5: 6 Hrs

Media convergence

Multimedia, application and uses.

CHAPTER – 6: 6 Hrs

Broadcast and satellite technologies

Discuss final paper or project ideas

CHAPTER – 7: 10 Hrs

The Internet

Internet lab, research and production- meaning purpose and uses.

BOOKS FOR REFERENCE:

1. Mohan Mahindra, Advertising Management.
2. Sandge S.H, Advertising Theory and Practice.
3. Percy & Larry, Advertising and Promotion Management.

4. Verma & Agarwal, Advertising Management.
5. Rajeev Bhatra, Advertising Management.
6. Chunawalla & Sethia, Foundations of Advertising Theory and Practice.
7. Kazmi S.H.H & Sathish K. Batra, Advertising and Sales Promotion.
8. Roger Barton, Hand Book of Advertising Management.
9. Chunnawalla S.A., An Introduction to Advertising and Marketing Research.

ELECTIVE VII TOURISM

1. TOURISM BUSINESS

CHAPTER – 1: 10 Hrs
 Definition, Nature, Importance, Components and typology of Tourism. Concepts of Domestic and international tourism recent trends.

CHAPTER – 2: 10 Hrs
 Tourism as an industry, visitor, tourist, excursionist. Meaning, definition, components of tourism industry, Infra structure required for the industry.

CHAPTER – 3: 10 Hrs
 Growth and development of Tourism in India.

CHAPTER – 4: 10 Hrs
 Impacts of Tourism-Economics, social, physical and environmental.

CHAPTER – 5: 10 Hrs
 Institutional organizations both national and international in world in promotion and development – WTO, TAAI, IATO, FHRAI etc.

BOOKS FOR REFERENCE:

1. Christopher J.Holloway: The Business of Tourism : Macconald and Evans, 1983.
2. A.K.Bhatia : Tourism Development, Principles and practices : Sterling publishers (p) Ltd New Delhi.
3. Anand.M.M : Tourism and Hotel Industry in India: Sterling Publishers (p) Ltd New Delhi.
4. Kaul.R.H : Dynamics of Tourism : A trilogy Sterling Publishers (p) Ltd N.Delhi.
5. IITTM : Growth of Modern Tourims – Monograph : IITM New Delhi. 1989.
6. ITTM : Tourism as an industry – monograph : IITM, New Delhi, 1989.
7. Burhat &Medlik : Tourism – Past, present and future Heinemann, London.
8. Wahab, S.E: Tourism Management : Tourism International Press, London 1986.
9. Brymer, Robert A : Introudction to Hotel and Restaurant Management : Hub publication, Co., Iowa, 1984.
10. Riccline J.R.Brent : Travel and Tourism Hospitality Research, London, 1982.
11. Surinder Aggarwat : Travel agency.

2. TOURISM PRODUCT

CHAPTER – 1: 8 Hrs
Tourist Resources – Definition and Differentiation. Tourist Resources of India – types and typologies, cultural resource – Art and Architecture, historical monument, religious and spiritual centers, fairs and festivals, craftsmanship, folk customs, costumes and dresses, museums monuments and art galleries etc. Natural tourist resources – rich diversity in Landform and Landscape, outstanding geographic features, climate water bodies and flora and fauna.

CHAPTER – 2: 14 Hrs
Socio Cultural Resources – I
Architectural Heritage of India : Glimpses of India's architectural styles adopted over the ages, historical monuments of touristic significance ancient, medieval and modern their spartial and regional dimesions. Important historical / archaeological sites Musuem, art galleries and libraries their Location, assets and characteristics. Popular Religious shrines/centers-Hindu Buddhist, Jain, Sikh, Muslim, Christian and others. Yoga, meditation and other centers.

CHAPTER – 3: 16 Hrs
Socio-Cultural Resources – II
Performing arts of India, Classical Dances and Dance styles, centre of learning and performances. Indian folk dances.
Music and musical instruments: different schools of Indian music: status of vocal and instrumental music: new experiments.
Handicrafts of India as a potential tourist resources. Fairs and festival-social, religious and commercial fairs, festival, promotional (Tourism) fairs, viz : kite festival white water festival, snake boat race etc. Indian folk culture-folk culture folk custom and costumes, settlement patterns, religious observations, folk-lere and legends. Created tourist destinations, academic, scientific and industrial institutions.

CHAPTER – 4: 12 Hrs
Natural Tourist Resources – I
Tourist resource potential in mountain with special reference to Himalayas, resources and resource use patterns in the past, present and future perceptive.
India's main desert areas, their geological structure, development as desert tourism existing trends and facilities available, desert safairies and desert festival.
Coastal areas, beaches and islands, resources and resource pattern. Resources in islands with special reference to Andaman and Nicobar Islands. Overview on Tourism Development strategies.

BOOKS FOR REFERENCE:

1. Percy Brown : Indian Architecture Hindu and Buddhist period.
2. Harle J.C : The Art and Archiecture of Indian Sub Continent.
3. Bhartiya Vidya Bhawan : Imperial Unity
4. Bhartiya Vidya Bhawan : Classical age.
5. Acharya Ram : Tourism & Cultural Heritage of India : ROSA Publication (Jaipur, 1986)
6. Basham.A.L : The wonder that was India: Rupa and Com Delhi – 1988.
7. The Gazette of India : History and Culture, Vol.2, publication division, Ministry of Information and Broadcasting, Government of India, 1988.
8. Hussain.A.K : The national culture of India, National Beek trust, New Delhi – 1987.
9. Mukerjee.R.K – The culture and art of India – George Allen Unwin Ltd, London 1959.
10. The treasure of : Marg Publication Bombay Indian Museums.

3. TOURISM MARKETING

CHAPTER – 1: 20 Hrs
The Concept marketing, nature, classification and characteristics of services and their marketing implications developing marketing strategies for services firms. Linkage in tourism and other sectors (Travel Agency, Accommodation, Food, Nutrition, Catering).

CHAPTER – 2: 10 Hrs
Tours packaging, concept, characteristics methodology considerations and pricing of Tour Package, Designing and printing of Tour Brochure.

CHAPTER – 3: 20 Hrs
Marketing and publicity aids viz. books, periodicals, brochure, posters, handouts, press release and audiovisuals. Promotional and public relations methods employed in Tourism Marketing.

BOOKS FOR REFERENCE:

1. Kotler Philips, Marketing Management, PHI, New Delhi.
2. Maccarthy D.K.J, Basic Marketing – A Management approach.
3. Douglas Foster, Travel and Tourism Management.
4. Negi. M.S., Tourism and Hetelieriing.
5. Wahab. S. Grampter, Tourism Marketing, Tourism International Press, London 1976.
6. Stephan. F. Witt, Tourism Marketing and Management Handbook, Prentice Hall, New York, 1985.
7. Renal A. Nykiel L, Marketing in Hospitality Industry (2nd Ed.) Van Nestrand Reinhold, 1986.
8. Maclean, Hunter, Marketing Management (Tourism in your business), Canadian Hotel and Restaurant Ltd., 1984.
9. Kenneth E. Clow & David L. Kurtz, Services Marketing, Biztantra Publications.

4. TRAVEL AGENCY AND TOUR OPERATORS BUSINESS

CHAPTER – 1: 15 Hrs
Definition, main function, organizational structure of a travel agency and the tour operators.

CHAPTER – 2: 10 Hrs
Different types of travel agents and their responsibilities, procedures for becoming a travel agent and tour operator in India.

CHAPTER – 3: 15 Hrs
Role of India Airlines, Indian railways, Air India and Private airlines in the growth of travel agency and tour operators Business.

CHAPTER – 4: 10 Hrs
Accommodation – Types organization and management.

BOOKS FOR REFERENCE:

1. Merissen Jome.W: Travel agents and tourism.
2. David H.Howel – Principal and methods of scheduling reservations (national publishers) 1987.
3. Agarwal, Surinder: Travel agency management (Communication India 1983)

4. Geo, Chack – Professional Travel agency management: Prentice Hall London, 1990.
5. Bhatia.A.K – Tourism development – principles and policies sterling publishers, 1991 New Delhi.
6. William Cordve – Travel in India,
7. National Publishers: The world of travel, national publishers Delhi 1979.

ELECTIVE VIII INTERNATIONAL BUSINESS

1. EXIM TRADE

<p>CHAPTER – 1: International trade policies and Relations Introduction – Tariffs – Subsidies – Imports – Quotas – Voluntary export Restraints – local Content requirements – Administrative policies – Government intervention – International law and business firms.</p>	6 Hrs
<p>CHAPTER – 2: Export Documentation and Procedure Role export Documentation – Regulatory requirements – Operational Requirements – Significance of some export Documents – Common defects in Documentations – Processing of an Export order – Stages in processing of an Export order.</p>	10 Hrs
<p>CHAPTER – 3: Institutional infrastructure for Export Promotion in India Introduction – Consultative and Deliberative Body – Commodity organisation – Commodity board – Service institutions – Indian trade Promotion organisation –national Center for trade Information – ECGC – Export Import bank – Export Inspection Council – Indian Institute of packaging – Indian Council of Arbitration – federation of Indian Export organisation – Department of Commercial intelligence and Statistics – Directorate general of Shipping – All Indian Shippers Council.</p>	10 Hrs
<p>CHAPTER – 4: India’s Trade policy Introduction – Import Policy – instrument of Commercial policy – Long term Fiscal policy – Restructuring of Customs Duty – thrust Commodities – export Strategy based on Country commodity matrix.</p>	8 Hrs
<p>CHAPTER – 5: Export Assistance Need for Export Assistance – New system of Export Assistance – market based Exchange Rate – Tax concessions – facilities available under the export import policy for exporter – EPCG (Export Promotion Capital Goods) Scheme – Export Obligation – Duty Exemption Scheme – Duty Exemption/ Remission Scheme.</p>	10 Hrs
<p>CHAPTER – 6: Role and functions of state trading S.T.C, M.M.T.C, M.I.T.C.S, and T.T.C.I specialized export promotion councils and agencies.</p>	6 Hrs

SKILL DEVELOPMENT:

?< Visit any export house and try to familiarise with the procedure involved in exporting.

- ?e Familiarise with the documents and procedure involved in imports and exports.
- ?ø Understand the institutional supports that are available in India for encouraging exports.

BOOKS FOR REFERENCE:

1. B.L. Varshney and B. Bhattacharya, International Marketing management.
2. P.G.Apte, International Financial Management.
3. Francis Cherunilum, International Marketing Management.
4. Philip R. Cateoria, International Marketing.
5. B.S. Rathore & J.S. Rathore, International Marketing Management.
6. M.L. Verma, Foreign Trade and Management in India.

2. INTERNATIONAL MARKETING

<p>CHAPTER – 1: International Marketing Meaning – Reasons and Motives for International marketing – International Marketing Decisions – Scope of marketing Indian products abroad.</p>	<p>4 Hrs</p>
<p>CHAPTER – 2: Nature and scope of International Marketing Features of International Marketing – Need for international Trade – International Marketing Environment - The basis of International Trade - Theory of comparative cost - Modern Theories - Tariff and Non-Tariff barriers - WTO and its impacts.</p>	<p>6 Hrs</p>
<p>CHAPTER – 3: International Marketing Intelligence Requirement and Sources of Information’s – systems and marketing research – Problems in International Marketing research.</p>	<p>6 Hrs</p>
<p>CHAPTER – 4: Special features of International Marketing Identifying foreign market product scanning for exports. Export distribution and channels packaging: Overseas market research pricing.</p>	<p>10 Hrs</p>
<p>CHAPTER – 5: International Product Decisions Product, Product mix, Branding, Packaging Labelling and Product Communication Strategies.</p>	<p>6 Hrs</p>
<p>CHAPTER – 6: International Pricing Exporters cost and Pricing Objectives – methods and Approaches and Steps – transfer pricing – dumping – Information Requirements for pricing.</p>	<p>6 Hrs</p>
<p>CHAPTER – 7: International Distribution International channels System – Direct and Indirect Exports – Distributions Strategies and International logistics.</p>	<p>6 Hrs</p>
<p>CHAPTER – 8: International Promotion</p>	<p>6 Hrs</p>

Marketing Environment and promotion Strategy – International marketing Communication mix – export promotion Organization trade Fair and Exhibitions – Problems in International Marketing.

SKILL DEVELOPMENT:

- ?> Understand the role of WTO in International Marketing.
- ?İ Report form the literature available in business magazines about International Product promotion adopted by business units in India.
- ?ò From the magazine try to acquire conceptual clarity on transfer pricing and dumping.
- ?,. Visit any institution responsible for export promotion and evaluate the functioning with reference to defined objectives.

BOOKS FOR REFERENCE:

1. B.L. Varshney and B. Bhattacharya, International Marketing management.
2. P.G.Apte, International Financial Management.
3. Francis Cherunilum, International Marketing Management.
4. Philip R. Cateoria, International Marketing.
5. B.S. Rathore & J.S. Rathore, International Marketing Management.
6. M.L. Verma, Foreign Trade and Management in India.
7. Dana – Nicoleta Lascu, International Marketing, Biztantra.
8. Srivasthava, International Marketing.

3. INTERNATIONAL FINANCE

CHAPTER – 1: Meaning of International Finance Scope and significance of International finance.	6 Hrs
CHAPTER – 2: International Accounting Variations in Accounting System – Consequences of absence of Comparability – harmonization of differences.	6 Hrs
CHAPTER – 3: International Finance and Foreign Exchange Convertibility of Rupee and its implications – Foreign Institutional investors – Global Depository Receipts – Foreign Direct Investments – Capital Expenditure Analysis – International risk management.	8 Hrs
CHAPTER – 4: Balance of Payments Components of balance of payments – Disequilibrium in the balance of payments- methods of correction of disequilibrium.	6 Hrs
CHAPTER – 5: Instruments in International Financial Markets.	6 Hrs

CHAPTER – 6: 6 Hrs
Exchange risks – hedging, Forward, future, swaps options, Valuation of future and swaps-valuation of options and efficiency of the exchange market.

CHAPTER – 7: 6 Hrs
Globalisation of Capital markets, Innovation in foreign securities and international portfolio management.

CHAPTER – 8: 6 Hrs
International financial institutions and liquidity: -
The IMF, International liquidity and SDR's (special drawing rights) – International bank for reconstruction and development (World Bank), International development association, International investment guarantee agency.

SKILL DEVELOPMENT:

- ?i Visit any authorized dealers establishment and understand the activities of dealing room
- ?• Analyse the trend of FDI into India during the preceding five years.

BOOKS FOR REFERENCE:

1. Harris Manville, International Finance.
2. Keith Pibean, International Finance.
3. Timothy Carl Kesta, Case and Problems in International Finance.
4. Avadhani B.K, International Finance Theory and Practice.
5. P.A. Apte, International Financial Management.
6. Madhu Vij, International Finance.
7. Levi, International Marketing Management.
8. Bndar D.C, International Finance.
9. Murthy E.N, International Finance & Risk Management.
10. M.L. Verma, Foreign Trade & Management in India.
11. Rao and Chary, International Finance.

4. INTERNATIONAL HUMAN RESOURCE MANAGEMENT

CHAPTER – 1: 10 Hrs
Globalization and Human Resource Management-
Introduction – Impact on employment- impact on HRD, Impact on Wages & Benefits, Impact on Trade Unions, Impact on Collective Bargaining, Impact on Participative management and Quality Circles, Managing Diversified cultures.

CHAPTER – 2: 6 Hrs
Total quality management and HRM
Introduction, Principles and core concepts of TQM, HRM and TQM, the Total quality HR strategy.

CHAPTER – 3: 14 Hrs
Recent Techniques in HRM
Employees for lease, Moon lighting by employees – Blue moon to full moon, Dual career groups, Flexitime and Flexiwork, Training and Development – Organization's Educational Institutes, Management Participation in Employee's Organization, Consumer Participation in Collective Bargaining, Collaborative Approach, Employee's Proxy, HR accounting, Organizational Politics, Exit Policy and Practice, Future of HRM.

CHAPTER – 4: 10 Hrs
Managing HR in an International Business
Introduction – The internationalization of Business - Improving international assignments through selection - Diversity counts- sending women managers abroad - Training and maintaining international employees.

CHAPTER – 5: 10 Hrs
HR Records, Audit, Research and Information system
HR Records, HR Audits, HR Research, HR Information System, HR philosophy and building employee commitment.

SKILL DEVELOPMENT:

?Ë Understand the concept of TQM in HR.

?[Visit any establishment of MNCs and understand the training requirements of Manpower in the global context.

BOOKS FOR REFERENCE:

1. Shaun Tyson, Strategic Prospects HRM.
2. Peter J. Dowling & Others, International Human Resources Management.
3. Subba Rao, International Business Text and Cases.

BANGALORE UNIVERSITY



REGULATIONS, SCHEME AND SYLLABUS

for the BCA course (I to VI Semesters)

(Syllabi of first two semesters and regulation approved earlier by BOS, Faculty of Science and Academic Council. Assent of the Chancellor for the same has also been obtained by the University)

(Syllabi of III to VI semesters approved in the BOS dt. 08.09.08)

BACHELOR OF COMPUTER APPLICATIONS (BCA)

(Semester System- Y2K8 scheme)

Revised w. e. f. Academic Year 2008– 2009

Copy for the Controller

AS
03/5/12

PROCEEDINGS OF THE BOARD OF STUDIES MEETING IN MASTER OF COMPUTER APPLICATIONS (UG & PG) HELD IN THE MCA PROGRAMME ON 8.09.08.

The following members attended the meeting:

1. Prof. Pradeep G. Siddheshwar	Chairman	<i>Siddheshwar</i>
2. Mr. B.L. Muralidhara	Member	<i>B.L. Muralidhara</i>
3. Mr. M. Hanumanthappa	Member	<i>M. Hanumanthappa</i>
4. Mr. M.T. Somashekara	Member	<i>M.T. Somashekara</i>
5. Dr. Gopalakrishna D	Member	<i>Gopalakrishna D</i>
6. Dr. J.N. Singh	Member	<i>J.N. Singh</i>
7. Sri. Srinivasa A	Member	<i>Srinivasa A</i>
8. Dr. Rama	Member	<i>Rama</i>
9. Sri. Gundu Rao	Member	<i>Gundu Rao</i>
10. Sri. Manjunatha	Member	<i>Manjunatha</i>
11. Smt. Pratibha Kalburgi	Member	<i>Pratibha Kalburgi</i>

Dr. K. Narayanamurthy, Dr. Hemanth Kumar, Dr. B.V. Dhandra and Dr. Vishwakaryagadde could not attend the meeting

The committee discussed the following matters and made resolutions as indicated below:

1. The BCA Syllabi of III to VI semesters (Y2K8 Scheme) were discussed and finalized by the BOS.
2. The BOS recommended that remission be given on the Indian Constitution paper to students of third semester BCA (Y2K7 Scheme) as these students have studied the same in the first semester itself.
3. The BOS approved, with modification of format, the Ph.D. synopsis of the following students:
 - a. M.T. Somashekara
 - b. Hegde Chetana Laxminarayana
 - c. Ashoka S.B.

The BOS authorized the Chairman to look into the modified synopsis to be submitted by the students and transmit the same to the University.

4. The BOS deferred the matter of revision of M.Sc. (Computer Science) and MCA Syllabi to the next BOS meeting.
5. The Panel of Examiners for UG (B.Sc. / BCA) and PG (M.Sc. / MCA) was prepared and approved by the BOS.
6. The BOS recommended that M.Phil in Computer Science may be introduced from 2010-2011 as the department would be better equipped to handle a new course at that time.

Siddheshwar

CHAIRMAN
BOS IN CS(UG & PG)

Regulations, Scheme of Study and Examination for B.C.A. degree course under Semester System (Y2K8 scheme) (Revised w.e.f. 2008– 2009)

- R 1.** a) Title of the course: Bachelor of Computer Applications
b) Duration of the Course: The course shall be of three years duration spread over six semesters.
c) Scheme of study:
i) There shall be five theory papers and two practicals from first semester to fourth semester. The practical paper corresponds to one or two theory papers. The papers having no practical component carry 100 marks (90+10) and the papers carrying practical component also carry 100 marks (60+30+10).
ii) There shall be four theory papers and one project work during fifth and sixth semesters.
iii) The project work shall be carried out either independently or jointly (maximum of three students).
iv) Medium of Instruction: The medium of instruction shall be English.
d) Scheme of Examination:
i) At the end of each semester there shall be University examination of three hours duration in each of the theory paper/practical.
ii) Continuous Evaluation (CE) carrying 10 marks in each of theory papers shall be based on the performance of the students in two written tests of one hour duration. No minimum marks for passing is required in IA.
iii) At the end of the fifth and sixth semesters each student shall have to submit the completed project report for the evaluation which shall be certified by internal and/external guide and duly signed by the Principal/Chairman/Head/Course Coordinator.

The project report shall be evaluated by two examiners for 100 marks and Viva-voce shall carry 100 marks.

- R 2.** Each semester shall be of 4 months duration
R 3. Attendance: As per Bangalore University regulations in force for science degree courses.
R 4. A Candidate is allowed to carry over all the previous unleared (failed) theory papers and/Practicals to subsequent semesters as per Bangalore University regulations in force for science degree courses.
R 5. The maximum period for completion of the course shall be six years from the date of admission.
R 6. Eligibility for admission:
a) Any student who has passed PUC – II Science, Arts or Commerce securing a minimum of 35% of marks

OR

- b) Any student who has passed JODC or Diploma in Engg. (of three year duration of Govt. of Karnataka) with minimum of 35% of marks in aggregate in all the semesters/years.
R 7. Admission Procedure:
a) Through Counseling in respective colleges
b) 50% weightage for entrance test in respective colleges
c) 50% weightage for performance at qualifying examination.
d) Merit list shall be prepared based on item No. 7(b) and 7 (c)

- e) Reservation: As per the notifications/Govt. orders from the University/Govt. from time to time.
- f) Tuition and other fees: As fixed by the University from time to time

R 8. The total number of students to be admitted to the course shall be as decided by the University.

R 9. Results: Results of candidate shall be declared and the classes awarded as per the procedure followed by the University for B.Sc. courses.

R 10. POWER TO REMOVE DIFFICULTIES

- 1) If any difficulty arises in giving effect to the provisions of these regulations, the Vice – Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- 2) Every order made under this rule shall be subject to ratification by the appropriate University Authorities.

**Title of Papers and Scheme of Study & Examination for BCA
(Bachelor of Computer Applications) Revised w.e.f. 2008-2009**

Sem.	Paper	Title of the paper	Hrs/ Wk	Theory	Practical	CE	Total Marks
				Max. Marks	Max. Marks		
I	BCA101	Indian Language					
	BCA102	English	4	90	-	10	100
	BCA103	Computer Fundamentals	4	90	-	10	100
	BCA104	Electronics	4	90	-	10	100
	BCA105	Programming Concepts Using C	4	60	30	10	100
II	BCA201	Indian Language	4	60	30	10	100
	BCA202	English	4	90	-	10	100
	BCA203	Mathematics	4	90	-	10	100
	BCA204	OOPS Using C++	4	90	-	10	100
	BCA205	Data Base Management Systems	4	60	30	10	100
III	BCA301	Indian Language	4	60	30	10	100
	BCA302	English	4	90	-	10	100
	BCA303	Indian Constitution	4	90	-	10	100
	BCA304	Operating Systems	4	100	-	-	100
	BCA 305	Data Structures Using C	4	90	-	10	100
	BCA306	Numerical Analysis and Linear Programming	4	60	30	10	100
IV	BCA401	Indian Language	4	60	30	10	100
	BCA402	English	4	90	-	10	100
	BCA403	Environmental Studies	4	90	-	10	100
	BCA404	Data communications and Networks	4	90	-	10	100
	BCA405	Visual Programming	4	90	-	10	100
	BCA406	UNIX Programming	4	60	30	10	100
V	BCA501	Software Engineering	4	60	30	10	100
	BCA502	Computer Architecture	4	90	-	10	100
	BCA503	Banking and insurance	4	90	-	10	100
	BCA504	JAVA Programming	4	90	-	10	100
	BCA505	Project	4	60	30	10	100
	BCA 506	Soft Skills & Personality Development Lab	-	-	90	10	100
VI	BCA601	Design & Analysis of Algorithms	4	90	-	10	100
	BCA602	Systems Programming	4	90	-	10	100
	BCA603	Computer Graphics	4	90	-	10	100
	BCA604	Web Programming	4	90	-	10	100
	BCA 605	Project	4	60	30	10	100
			8	-	180	20	200

- Note:**
- 1) The practical classes during the course of the semester shall be as in other science courses.
 - 2) Examination for Theory/Practicals shall be of three hours duration.
 - 3) In the evaluation of projects in fifth and sixth semesters, during the practical examination the demonstration of the project carries 50% of marks and viva-voce carries 40% of marks.
 - 4) The papers should be taught only by people who have specialization in the area.
 - 5) For theory papers the paper number may be suffixed with T and for practical papers with P, e.g., 604T and 604P.
 - 6) The question paper pattern and mode of evaluation to be as finalized earlier for I and II semester BCA. Any further requirement in the matter may be decided by the Chairman, BOS in consultation with BOS members.

derivation), advantages & disadvantages. **Full wave rectifier:** Center tapped rectifier, Circuit, working, wave forms and expressions for ripple factor and efficiency (no derivation), advantages & disadvantages. **Bridge wave rectifier:** Circuit, working, wave forms and expressions for ripple factor and efficiency (no derivation), advantages & disadvantages. **Logic families:** Scale of integration, Digital IC's, classifications, DTL, TTL, ECL, MOS, CMOS, **Mention of features:** speed of operation, power dissipation, propagation delay, fan-in, fan-out.

NUMBER SYSTEMS

12 HOURS

Introduction to number systems – positional and non-positional, Base/ Radix. Decimal number system – Definition, digits, radix/base. Binary number system – Bit, Byte, **Conversions:** Binary to Decimal and Decimal to Binary. Octal number system – Conversion from Octal to Decimal, Decimal to Octal, Octal to Binary and binary to Octal. Hexadecimal number system-Conversions: Decimal to Hex, Hex to decimal, Hex to Binary, Binary to Hex, Octal to Hex, Hex to Octal. Binary arithmetic- binary addition, subtraction, multiplication and division (only Integer part). 1's and 2's complement – 2's complement subtraction. **Binary codes:** BCD numbers, 8421 code, 2421 code- examples and applications. **Gray code-** Conversions- Gray to binary and Binary to Gray, application of gray code (Mention only). **Excess – 3 code** - Self complementing property and applications. Definition and nature of **ASCII code**. Introduction to **error detection and correction code**, parity check. **Boolean algebra:** - Laws and Theorems.

AND, OR, NOT Laws, Commutative law, associative law, distributive law, Duality theorem. **Demorgan's theorems** – Statements, proof using truth tables; Simplification of Boolean expressions using Boolean laws. Definition of product term, sum term, minterm, maxterms, SOP, standard SOP, POS and Standard POS. Conversion of Boolean expression to Standard SOP and Standard POS forms. Karnaugh maps- Definition of Karnaugh map, K- map for 2, 3 and 4 variables. Conversion of truth tables into k-map, grouping of cells, redundant groups and don't care conditions. Karnaugh map technique to solve 3 variable and 4 variable expressions. Simplification of 3 and 4 variable Boolean expression using K-maps (SOP only).

LOGIC GATES

12 HOURS

AND Gate: Definition, symbol, truth table, timing diagram, Pin diagram of IC 7408. OR Gate: Definition, symbol, truth table, timing diagram, Pin diagram of IC 7432. NOT Gate: Definition, symbol, truth table, timing diagram, Pin diagram of IC 7404. NAND Gate: Definition, symbol, truth table, Pin diagram of IC 7400. NOR Gate: Definition, symbol, truth table, timing diagram, Pin diagram of IC 7402. Exclusive OR Gate: Definition, symbol, truth table, timing diagram, applications, Pin diagram of IC 7486. Exclusive NOR Gate: Definition, symbol, truth table, timing diagram. Combinational logic circuits: Definition, applications. Half Adder: Symbol, Logic circuits using XOR and basic gates, Truth table. Full Adder: Symbol, Logic circuits using XOR and basic gates, Truth table. Half Subtractor: Symbol, Logic circuits using XOR and basic gates, Truth table. Full Subtractor: Symbol, Logic circuits using XOR and basic gates, Truth table. Adder - Subtractor: Logic circuit, pin diagram IC 7483, IC 7486. Parallel Adder: 4 - bit parallel binary adder, BCD adder, IC 7483. NAND - NOR implementation of Adders.

SEQUENTIAL CIRCUITS

10 HOURS

Importance of clock in digital circuit and introduction to flip flop. Flip-flop-difference between latch and flip-flop. Qualitative study of level and edge triggering. RS latch/unlocked, symbol and truth table. RS flip-flop using NAND gate, symbol, truth table and timing diagram. D flip-flop-Logic symbol, RS flip-flop as a D flip flop, truth table and timing diagram. J-K flip-flop- Symbol, truth table, Realization of JK flip-flop using NAND gates, working, and timing diagram. Race around condition, preset and clear inputs, pin diagram of IC 74112. T flip flop - Logic symbol, JK flip flop as a T flip-flop, truth table and timing diagram. Master slave flip flop: Logic circuit, truth table and timing diagram, advantage of M/S flip flop, pin diagram of IC 7473, IC 7476. Registers: Definition, types of registers - Serial in serial out, Serial in parallel out, Parallel in serial out, Parallel in parallel out shift register (Block diagram representation for each), truth table, timing diagram and speed comparison.

BCA104P - PRACTICALS IN ELECTRONICS

List of experiments - (At least 10 experiments to be conducted)

- 1) Study of Logic Gates- AND, OR, NOT, NAND, NOR, XOR. (using respective ICs)
- 2) Realization of AND, OR and NOT gates using Universal Gates.
- 3) Design and Realization of Half Adder/Subtractor using NAND Gates.
- 4) Design and Realization of Full Adder using Logic Gates.
- 5) Design and Realization of 4 bit Adder/Subtractor using IC 7483.
- 6) Design and Realization of BCD Adder using IC 7483.
- 7) Realization of R-S flip flop using NAND gates.
- 8) Realization of J-K flip flop using IC 7400 and 7410.
- 9) Realization of T and D flip flop using IC 7476.
- 10) Implementation of SISO Shift Registers using flip flops (IC 7476).
- 11) Implementation of SIPO Shift Registers using flip flops (IC 7476).
- 12) Implementation of PISO Shift Registers using flip flops. (IC 7476).
- 13) Implementation of PIPO Shift Registers using flip flops. (IC 7476).
- 14) Implementation of Half wave and Full wave rectifier using Semiconductor diode. (Ripple factor)
- 15) Design and implementation of odd and even parity checker Generator using IC 74180.

BCA105T – PROGRAMMING CONCEPTS Using C

Total: 52 Hrs

- 1.0 **Computer Programming** : Basic Programming concepts - Algorithm, Flowcharts, Modular Programming and structured programming. (3 Hrs)
- 2.0 **'C' PROGRAMMING**
 - 2.1 Problem solving using Computers, Concept of flowcharts and algorithms (5 Hrs)
 - 2.2 **Overview of C** : Introduction, Importance of 'C', Sample 'C' Programs, Basic structure of 'C' programs, Programming style, Executing a 'C' Program. (3 Hrs)

- 2.3 Constants, Variables and Data types :** 'C' Tokens, keywords, and identifiers, constants, variables, datatypes, declaration of variables, assigning values to variables, defining symbolic constants. (3 Hrs)
- 3.0 Operators and expression :** Arithmetic operators, Relational operators. Logical operators, Assignment operators, increment and decrement operators, conditional operators, bitwise operators, special operators, some computational problems, type conversion in expressions, operator precedence and associativity. Mathematical functions. (5 Hrs)
- 3.1 Managing input and output operators :** Input and Output statements, reading a character, writing characters, formatted input, formatted output statements. (3 Hrs)
- 3.2 Decision making, Branching and looping :** Decision making with IF statement, simple IF statement, The IF-ELSE statement, nesting of IF .. ELSE statements, The ELSE -IF ladder, The switch statement, The?: operator, The GOTO statement, The WHILE statement, The DO statement, The FOR statement, jumps in loops. (6 Hrs)
- 4.0 Arrays :** One dimensional arrays, Two-dimensional arrays, initializing two-dimensional array, Multidimensional arrays. (5 Hrs)
- 4.1 Handling of character strings :** Declaring and initializing string variables, reading string from terminal, writing string to screen, arithmetic operations on characters, putting strings together. Comparison of two strings, string handling functions-strlen, strcat, strcmp, strcpy (5 hrs)
- 5.0 User defined functions :** Need for user-defined functions, a multi-functional program, the form of 'C' function, Return values and their types, calling a function, category of functions- No arguments and no return values, arguments but no return values, arguments with return values, handling of non-integer functions, nesting of functions, recursion, functions with arrays. (4 Hrs)
- 6.0 Structure and union :** Structure definition, giving values to members, structure initialization, comparison of structure variables, array as structure, array within structure, union. (5 Hrs)
- 7.0 Pointers :** Understanding pointers, accessing the address of variables, declaring and initializing pointers, accessing a variable through its pointer. (3 Hrs)

Text books :

1. E.Balaguruswamy. : *Programming in ANSI C* Tata Mc Graw-Hill (1998)
2. Kamthane, *Programming with ANSI and Turbo C*. Pearson Education 2003

References :

1. V.Rajaraman.: "Fundamentals of Computers", PHI (EEE) (1999).
2. V.Rajaraman.: "Programming in C ", PHI (EEE) (2000)
3. S.ByronGottfried. : "Programming with C", Tata McGraw-Hill(2000)
4. Yashawant Kanetkar : "Let us C"
5. Rajesh Hongal : "Computer Concepts & C language"
6. Brain verminghan & Dennis M. Ritchie "ANSI C Programming " (PHI)
7. Ramkumar & Rakesh Aggarwal "ANSI C Programming" Tata McGraw Hill
8. Kernighan, C – Programming Language ANSI C Version. Pearson Education.
9. Venkateshmurthy, *Programming Techniques through C*. Pearson Education.
10. E. Balaguruswamy – *Computer Fundamentals and C Programming*. TMH 2008
11. Bronson : *ANSI C Programming , 1st Edition, 2008* Cengage Learning India
12. Forouzan : *Computer Science A Structured Programming Approach Using C 3rd Edition*, Cengage Learning India

BCA105P - PRACTICALS IN C PROGRAMMING

List of programs

PART A

- 1) Write a Program to find the root of the given quadratic equation using switch case.
- 2) Write a C Program to generate and print first N FIBONACCI numbers.
- 3) Write a Program to find the GCD and LCM of two integer numbers
- 4) Write a C Program that reverse a given integer number and check whether the number is palindrome or not.
- 5) Write a Program to find whether a given number is prime number or not
- 6) Write a C Program to input numbers and to find mean variance and standard deviation.
- 7) Write a C Program to read two matrices and perform addition and subtractions of two matrices.
- 8) Write a C Program to read a string and check whether it is palindrome or not.
- 9) Write a Program to find the factorial of a number using function

PART B

- 10) Write a C Program to find if a character is alphabetic or numeric or special character.
- 11) Write a C Program to compute the sum of even numbers and the sum of odd numbers using a function.
- 12) Write a C Program to find trace and normal of a square matrix using functions.
- 13) Write a C Program to accept a sentence and convert all lowercase characters to uppercase and vice-versa.
- 14) Write a Program to accept different goods with the number, price and date of purchase and display them.
- 15) Write a C Program to find the length of a string without using the built-in function.
- 16) Copying the contents of one file into another.
- 17) Write a C program to accept the reverse of a string using pointers.

Note : The list of programs has been divided into two parts for the sake of practical examination in which two programs are to be given one from each part.

SECOND SEMESTER

BCA201T – INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA202 T- ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University

BCA203T – MATHEMATICS

Total: 52 hrs

1. **Matrices:** Review of fundamentals: Defn. matrix, order, Types of matrices: zero, row, column, square, diagonal, scalar, unit, symmetric, skew-symmetric
Determinant: Value of determinant of order 2×2 , 3×3 , minors, cofactors, adjoint, inverse of a matrix.
Solutions of linear equations: Cramers rule and matrix method involving two and three variables.

eigen values and eigenvectors: Defn., characteristic equation, characteristic roots, characteristic vectors(without any theorems) only 2x2 order.

Cayley Hamilton theorem.(only statement), verification of Cayley Hamilton theorem.(only 2x2 matrices), using the same finding the powers of A (A^4, A^5, A^{-1}, A^{-2}), inverse of a matrix using Cayley Hamilton theorem.

2. Integral Calculus

Defn., Problems of the type: i). $\int \frac{1}{a^2 \pm x^2} dx$, ii). $\int \frac{1}{x^2 - a^2} dx$,

iii). $\int \frac{1}{\sqrt{x^2 - a^2}} dx$ iv). $\int \frac{1}{\sqrt{x^2 + a^2}} dx$, v). $\int \frac{1}{ax^2 + bx + c} dx$,

vi). $\int \frac{1}{\sqrt{ax^2 + bx + c}} dx$ vii). $\int \frac{lx + m}{ax^2 + bx + c} dx$, viii). $\int \frac{lx + m}{\sqrt{ax^2 + bx + c}} dx$

ix). $\int \frac{1}{a + b \cos x} dx$ x). $\int \frac{1}{a + b \sin x} dx$, xi). $\int \frac{1}{a + b \cos x + c \sin x} dx$,

xii). $\int \frac{a \sin x + b \cos x}{A \sin x + B \cos x} dx$

Integration by partial fractions, Integration by parts,

Problems of the type $\int (f(x) + f'(x))e^x dx$, Definite integrals, properties(no proofs), problems.

3. Algebraic Structure

Binary operation, Defn. of group, properties(only statement), problems(both finite and infinite groups), subgroup, theorems(no proof), problems.

Vectors: Defns. of vector and scalar, vector addition, dot and cross product, projection of a vector on the other(no geometrical meaning), area of parallelogram, area of a triangle, scalar triple product, volume of parallelepiped, coplanarity of three vectors, vector triple product.

4. Differential Calculus

Differentiation of n^{th} derivatives: derivations of x^m , $(ax + b)^m$, $1/ax + b$, $\log(ax + b)$, $\sin(ax + b)$, $\cos(ax + b)$, $e^{ax} \sin(bx + c)$, $e^{ax} \cos(bx + c)$ and problems. Leibnitz rule (statement only), problems.

5. Differential Equations: Defn., solution(no formation), order and degree.

First order and first degree equations:

- Variable separable
- homogeneous
- Exact equation $Mdx + N dy = 0$ (reducible to exact / Integrating Factor not included)
- Linear equation.

6. Analytical Geometry

Defn. of vector \vec{r} , magnitude, problems, 'distance between two points, finding $|\vec{AB}|$ and $|\vec{AB}|$, direction cosine, ratio, $l^2 + m^2 + n^2 = 1$, problems i). Finding the direction cosines of A and B, ii) $\sin^2\alpha + \sin^2\beta + \sin^2\gamma = 2$ iii). $\sum \cos 2\alpha = -1$

Angle between two lines: $\cos\theta$ and $\sin\theta$, problems: angle between two vectors, angles of a triangle, angle between diagonals of a cube, angle between diagonals of a rectangle.

Equation of a line: $\vec{r} = \vec{a} + \lambda\vec{\alpha}$ (one point), $\vec{r} - \vec{a} = \lambda(\vec{b} - \vec{a})$ (two point form),

Direct problems: i) condition for lines to be parallel and perpendicular ii) point of intersection of lines

Equation of a Plane: i). $(\vec{r} - \vec{a}) \cdot \vec{\alpha} = 0$, ii) normal form $lx + my + nz = p$

Problems: i) \vec{a} , $\vec{\alpha}$ ii) image or reflection

1. **Introduction** : Procedural Languages, definition of OOP, Basic concept of OOP, Object, Class, Data Abstraction, Data Encapsulation, Data Hiding member functions, Reusability, Inheritance, Creating new Data Types, Polymorphism, Overloading, Dynamic binding, and Message passing. (2 Hrs)
2. **C++ Features**: The iostream class, C++ Comments, C++ Keywords, Variable declaration, The Const Qualifier. The Endl, Set W, set precision, Manipulators, The scope resolution operator, The new & delete Operators. (2 Hrs)
3. **Functions**: Simple Functions: Function declaration, calling the function, function definition; Passing argument to, returning value from function; passing constants, Variables, pass by value, passing structure variables, pass by reference, Default arguments, return statements, return by reference, overloaded functions; Different number of arguments, Different Kinds of arguments, inline function. (8 Hrs)
4. **Objects & Classes** : Classes & Objects, Class Declaration, Class members; Data Constructors, Destructors, Member functions, Class member visibility; private, public, protected. The scope of the class object constructors; Default Constructor, Constructor with argument, constructor with default arguments, Dynamic constructor, copy constructor, Overloaded constructor, Objects as function arguments; member functions defined outside the class, Objects as arguments, returning objects from functions, class conversion, manipulating private Data members, Destructors; classes, objects & memory, array as class member data, Array of objects, string as class member (12 Hrs)
5. **Operator Overloading** : Overloading unary operator: Operator Keyword, Operator Arguments, Operator return value, Nameless temporary objects, limitations of increment operator, overloading binary operator, arithmetic operators, comparison operator, arithmetic assignment operator, Data conversion; conversion between Basic types, Conversion between objects & Basic types, conversion between objects of different classes. (6 Hrs.)
6. **Inheritance** : Derived Class & Base Class : Specifying the Derived class accessing Base class members, the protected access specifier, Derived class constructor, Overriding member functions, public and private inheritance; Access Combinations, Classes & Structures, Access Specifiers, Level of inheritance; Multilevel inheritance, Hybrid inheritance, Multiple inheritance; member functions in multiple inheritance, constructors in multiple inheritance, Containership; Classes within classes, Inheritance & Program Development. (8 Hrs)
7. **Virtual Functions**: Normal member function accessed with pointers, Virtual member functions accessed with pointers, Dynamic binding, pure virtual functions, Friend function; Friends for functional notation, friend classes, the this pointer; Accessing Member Data with this, using this for returning values. (5 Hrs)
8. **Templates & Exception Handling**: Introduction, Templates, Class Templates, function templates, Member function templates, Template arguments, Exception Handling. (4 Hrs)
9. **Streams** : The Stream class Hierarchy, Stream classes Header file, string J/O : Writing strings, reading strings, character J/O, Detecting End – of – file. Object J/O; writing an object to disk, reading an object from disk, J/O with multiple objects; the f stream class, The open function, File Pointers; Specifying the position, Specifying the offset. The tellg Function, Disk J/O with Memory Functions; Closing Files, Error Handling, Command Line Arguments. (5 Hrs)

Text books:

1. Prata: C++ Primer Plus, 4/e Pearson Education

1. Lafore Robert : Object Oriented Programming in Turbo C++, Galgotia Publications

References:

1. Lippman: C++ Primer, 3/e Pearson Education

2. E. Balaguruswamy: Object Oriented Programming with C++, Tata McGraw Hill Publications.

3. Stroustrup: The C++ Programming Language, Pearson Edition, 3rd Edition

4. Kamthane: Object Oriented Programming with ANSI and Turbo C++, Pearson Education

5. Bhawe: Object Oriented Programming Using C++, Pearson Education

6. E. Balagurusamy – Object Oriented Programming with C++ 4/e TMH 2008

7. Farrell : Object Oriented Programming Using C++, 1ST Edition 2008, Cengage Learning India

BCA204P - PRACTICALS IN C++ PROGRAMMING**List of programs**

- 1) Write a program to implement digital clock
- 2) Write a program to swap two numbers using friend function
- 3) Write a program to calculate area and circumference of circle using inline function
- 4) Write a program to create electricity bill
- 5) Write a program to prepare a shopping lists
- 6) Write a program to perform bank transaction
- 7) Write a program to perform addition of two matrices using operator overloading.
- 8) Write a program for multiplication of two matrices using operator overloading.
- 9) Write a program to find sum of complex number using friend function.
- 10) Write a program to implement operation on stack.
- 11) Write a program to add two distance variable.
- 12) Write a program to implement operation on queue.
- 13) Write a program to sort elements using templates.
- 14) Write a program to find the maximum of two numbers using template.
- 15) Write a program to compare two string using equal to operator.
- 16) Write a program to concatenate two strings.
- 17) Write a program to find maximum of 2 Nos. using friend function.
- 18) Write a program to create a student report using inheritance technique.
- 19) Write a program to add two time variable
- 20) Write a program to implement area of geometrical figures

BCA205T – DATA BASE MANAGEMENT SYSTEMS

TOTAL: 52 hrs

- 1. Introduction:** Database and Database Users, Characteristics of the Database Approach, Different people behind DBMS, Implications of Database Approach., Advantages of using DBMS, When not to use a DBMS. (5 Hrs)
- 2. Database System Concepts and Architecture:** Data Models, Schemas, and Instances., DBMS Architecture and Data Independence., Database languages and interfaces., The Database system Environment, Classification of Database Management Systems. (4 Hrs)
- 3. Data Modeling Using the Entity-Relationship Model:** High level Conceptual Data Models for Database Design with an example., Entity types, Entity sets, Attributes, and Keys, ER Model Concepts, Notation for ER Diagrams, Proper naming of Schema Constructs, Relationship types of degree higher than two. (5 Hrs)
- 4. Record Storage and Primary File Organization:** Secondary Storage Devices. Buffering of Blocks. Placing file Records on Disk. Operations on Files, File of unordered Records (Heap files), Files of Ordered Records (Sorted files), Hashing Techniques, and Other Primary file Organization. (6 Hrs)
- 5. Functional Dependencies and Normalization for Relational Databases :** Informal Design Guidelines for Relational Schemas, Functional Dependencies, Normal Forms Based on Primary Keys., General Definitions of Second and Third Normal Forms, Boyce-Codd Normal Form. (6 Hrs)
- 6. Relational Data Model and Relational Algebra:** Relational Model Concepts., Relational Model Constraints and Relational Database Schema, Defining Relations, Update Operations on Relations., Basic Relational Algebra Operations, Additional Relational Operations., Examples of Queries in the Relational Algebra., Relational Database design Using ER – to – Relational Mapping. (6 Hrs)
- 7. Relational Database Language:** Data definition in SQL, Queries in SQL, Insert, Delete and Update Statements in SQL, Views in SQL, Specifying General Constraints as Assertions, Specifying indexes, Embedded SQL. (5 Hrs)
- 8. PL / SQL:** Introduction, Exceptions & Cursor Management, Database Triggers, Functions, Procedures and packages. (8 Hrs)
- 9. Transaction Processing Concepts:** Introduction, Transaction and System Concepts, Desirable properties of transaction, Schedules and Recoverability, Serializability of Schedules, Transaction Support in SQL, Locking Techniques for Concurrency Control, Concurrency Control based on time stamp ordering, Optimistic Concurrency control techniques, Using locks for Concurrency Control in Indexes. (7 Hrs)

Text book :

1. Patrick O'Neil, *Data Base Principles, Programming & Performance 2nd Edn.* Academic Press, 2002.
2. Elmasri & Navathe, *Fundamentals of Database Systems (Fourth Edition)*, Pearson Education, 2003.
3. Sundarraman, *Oracle 9i programming A Primer*, 1/e Pearson Education.
4. ROBCORONEL, *DBMS, Implementation and Management, 5th Edn.*, Thomson Pub., 2005.

References :

1. Kahate, *Introduction to Database Management System*, Pearson Education 2004.
2. Abrahamsi, Silberschatag, Henry. F. Korth, S. Sudarshan, *Database System Concepts*, Mc.graw hill.
3. Jeffrey D. Ullman, *Principles of database system*.
4. Oracle Press : *ORACLE - Computer reference*
5. C.J. Date, *Introduction to database systems, Sixth Edition*, Addison Wesley, 1995.
6. Raghu Ram Krishnan, *Database Management Systems, Second Edition*, Mc.Graw Hill, 2000
7. Leon – *Fundamental of Database Management System*
8. Rob : *Database Management Systems: Design, Implementation and Management*, 7th Edition, 2008 , Cengage Learning India
9. Pratt: *Concepts of Database Management* , 5th Edition, 2008 , Cengage Learning India

BCA205P - PRACTICALS IN DBMS

Programs must be developed in the practical classes in such a way that integration of the programs leads to an application program. This should be a pre-cursor to the mini projects to be taken up by the students in the fifth and sixth semesters.

THEORY AND PRACTICAL EXAMINATIONS

The pattern of question paper and the scheme of evaluation are as per the prescribed ones for science degree courses.

Text Book for BCA Mathematics paper :

1. Grewal, B.S, *Higher engineering Mathematics, Latest Edition*

Reference Books for BCA Mathematics paper:

1. Sastry S.S. *Engineering Mathematics, 2000*
2. Peter V. O'Neil, *Advanced Engineering Mathematics, 5th Edition*.
3. Liu – *Elements of Discrete Mathematics (SIE) 3/e*

Text Book for BCA Electronics paper :

1. Bignell & Donovan, *Digital Electronics, 4th Edn. Thompson Pub.*
2. V. K. Mehta, *Basic Electrical and Electronics Engineering*.
3. Thomas L. Floyd, " *Digital Fundamentals* ", Pearson Education Inc, New Delhi, 2003

Reference Books for BCA Electronics paper:

1. Thomas C. Bartee, *Digital fundamentals*
2. Morris Mano, *Digital Design, 3rd ed, Prentice Hall of India Pvt.Ltd, New Delhi.*
3. R. P Jain, *Modern Digital Electronics, 3rd ed, Tata Mc Graw Hill, 2003.*
4. Malvino and Leach, *Digital Electronics.*
5. Salivahanan – *Electronic Devices and Circuits 2/e.TMH.*

THIRD SEMESTER
BCA301T – INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA302T – ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA303T - INDIAN CONSTITUTION

Unit – 1

- a. Framing of the Indian Constitution: Role of the Constituent Assembly.
- b. Philosophy of the Constitution: Objectives, resolution, preamble, fundamental Rights and Duties. Human rights and Environmental protection. 10 hrs

Unit -2

- a. Special Rights created in the Constitution of Dalits, Backward Classes, Women and Children, and religious and linguistic minorities.
- b. Directive Principles of State policy: The need to balance fundamental rights with directive principles. 10 hrs

Unit – 3

- a. Union Execution : President, Prime Minister and Council of Ministers: powers and functions, coalition Government, problems in their working.
- b. Union Legislature : Lok Sabha and Rajyo Sabha, powers and functions. Recent trends in their functioning. 08 hrs

Unit – 4

- a. State Government : Governor, Chief Minister and Council of ministers, Legislature.
- b. Centre – State relation: Political, financial, administrative : Recent Trends. 12 hrs

Unit-5

- a. Judiciary : Supreme Court, Judicial Review, Writs Public interest litigations. Enforcing rights through writs.
- b. Emergency provision (Article 356) 10 hrs

Books for Reference:

1. D.D Basu – *Introduction to the Indian Constitution.*
2. A.S Narang – *Indian Constitution, Government and Politics.*
3. Nani Palkhivala – *we the People.* UBS Publishers, New Delhi, 1999.
4. A.G Noorani – *Indian Government and Politics.*
5. J.C Johari – *Indian Government and Politics Vol-I and II, Vishal, New Delhi.*
6. Gran Ville Austin–*The Indian Constitution – Corner Stone of a Nation, Oxford, New Delhi, 2000.*
7. M.U. Pylee, *Constitutional Government in India.*
8. K.K. Ghai, *Indian Constitution.*
9. J.N Pandey, *Constitution of India.*

BCA304T – OPERATING SYSTEMS

Total: 52 Hrs

- 1. Introduction:** Batch Systems, Concepts of Multiprogramming and Time Sharing, Parallel, Distributed and real time Systems, Operating System Structures, Components & Services, System calls, System programs, Virtual machines (6 Hrs)
- 2. Process Management:** Process Concept, Process Scheduling, Co – Operating process, Threads, Inter process communication, CPU Scheduling Criteria, Scheduling algorithm, Multiple Processor Scheduling, Real time Scheduling, Algorithm evolution. (8 Hrs)
- 3. Process Synchronization and deadlocks:** The Critical Section Problem, Synchronization hardware, Semaphores, Classical problems of synchronization, Critical regions, monitors, Dead locks – System model, Characterization, Dead lock prevention, avoidance and detection, Recovery from dead lock, Combined approach to deadlock handling. (10 Hrs)
- 4. Memory Management:** Logical and Physical address space, Swapping, Contiguous allocation, Paging, Segmentation, Segmentation with paging in Mastics and Intel 386, Virtual memory – Demand paging and it's performance, Page replacement algorithms, Allocation of frames, thrashing, page size and other considerations. Demand Segmentation (10 Hrs)
- 5. File management (Systems, Secondary Storage Structure):** File-Concepts, Access methods, Directory Structure, Protection and consistency semantics, File system structure, Allocation methods, Free space management, Directory Implementation, Efficiency and Performance, Recovery. (8 Hrs)
- 6. Disk Management (Structure, Disk Scheduling Methods):** Disk Structure & Scheduling methods, Disk management, Swap – Space management, (5 Hrs)
- 7. Protection and Security:** Goals of protection, Domain Protection, Access matrix, Security Problem, Authentication, One time password, program threats, System threads. (5 Hrs)

Text books:

1. Abraham Silberschatz and peter Baer Galvin, *Operating System Concepts, Fifth Edition*, Pearson Education 1989 (Chapter 1,3.1,3.2,3.3,3.4,3.6,4,5,6 (Except 6.8,6.9), 7, 8,9,10,11,13, (Except 13.6) 19 (Except 19.6),20(Except 20.8, 20.9), 22,23)
2. Nutt: *Operating Systems, 3/e* Pearson Education 2004
3. Stuart : *Operating sytems : Principles , Design and Implementation, 1st Edition* 2008, Cengage Learning India

References:

- 1 Milan Milonkovic, *Operating System Concepts and design, II nd Edition*, McGraw Hill 1992.
- 2 Richard Peterson , *Linux- The complete reference.*
- 3 Tanenbaum, *Operation System Concepts. Pearson Education.*
- 4 Nutt, *Operating Systems. Pearson Education.*
- 5 Stallings, *Operating Systems, Pearson Education.*
- 6 Dhamdhere – *Operating Systems 2/e* TMH 2007
- 7 Flynn : *Operating Systems , 1st Edition, 2008, Cengage Learning India*

BCA305T – DATA STRUCTURES Using C

- Introduction to Data structures:** Definition, Classification of data structures : primitive and non primitive. Operations on data structures. **Total: 52 Hrs**
(2 Hrs)
- Dynamic memory allocation and pointers:** Definition Accessing the address of a variable, Declaring and initializing pointers. Accessing a variable through its pointer. Meaning of static and dynamic memory allocation. Memory allocation functions : malloc, calloc, free and realloc. **(4 Hrs)**
- Recursion:** Definition, Recursion in C, Writing Recursive programs – Binomial coefficient, Fibonacci, GCD. **(4 Hrs)**
- Searching and Sorting Search:-** Basic Search Techniques : Search algorithm searching techniques : sequential search, Binary search – Iterative and Recursive methods. Comparison between sequential and binary search. **(4 Hrs)**
- Sort- General Background:** Definition, different types: Bubble sort ,Selection sort, Merge sort, Insertion sort, Quick sort **(10 Hrs)**
- Stack –** Definition, Array representation of stack; Operations on stack : Infix, prefix and postfix notations Conversion of an arithmetic expression from Infix to postfix. Applications of stacks. **(7 Hrs)**
- Queue-** Defn, Array representation of queue, Types of queue: Simple queue, circular queue, double ended queue(deque)priority queue, operations on all types of Queues**(7 Hrs)**
- Linked list –** Definition, Components of linked list, Representation of linked list, Advantages and Disadvantages of linked list. Types of linked list : Singly linked list, Doubly linked list, Circular linked list and circular doubly linked list. Operations on singly linked list : creation, insertion, deletion, search and display. **(7 Hrs)**
- Tree -** Definition : Tree, Binary tree, Complete binary tree, Binary search tree, Heap Tree terminology : Root, Node, Degree of a node and tree, Terminal nodes, Non-terminal nodes, Siblings, Level, Edge, Path, depth, Parent node, ancestors of a node. Binary tree : Array representation of tree, Creation of binary tree. Traversal of Binary Tree : Preorder, Inorder and postorder. **(7 Hrs)**

Text books :

1. Kamthane: *Introduction to Data Structures in C*. Pearson Education 2005.
2. Langsam, Ausenstein Maoshe & M. Tanenbaum Aaron. *Data Structures using C and C++* Pearson Education

References :

1. Weiss, *Data Structures and Algorithm Analysis in C, II Edition*, Pearson Education, 2001
2. Lipschutz: *Schaum's outline series Data structures* Tata McGraw-Hill
3. Robert Kruse *Data Structures and program designing using 'C'*
4. Trembley and Sorenson *Data Structures*
5. E. Balaguruswamy *Programming in ANSI C*.
6. Bandyopadhyay, *Data Structures Using C* Pearson Education, 1999
7. Tenenbaum, *Data Structures Using C*. Pearson Education, 2000.
8. Krishnamoorthy – *Data Structures using C* TMH 2008
9. Forouzan : *Computer Science A Structured Programming Approach using C, 2nd Edition*, 2008 Cengage Learning India
10. Gilberg : *Data Structure a Pseudocode Approach using C, 2nd Edition*, 2008, Cengage Learning India.

BCA305P – Data Structures Using C - Lab

al: 52 Hrs
: primitive
(2 Hrs)
dress of a
ts pointer.
s : malloc,
(4 Hrs)
Binomial
(4 Hrs)
searching
methods.
(4 Hrs)
ort, Merge
(10 Hrs)
prefix and
o postfix.
(7 Hrs)
e, circular
ies(7 Hrs)
nked list,
nked list,
on singly
(7 Hrs)
Heap Tree
n-terminal
ary tree :
Preorder,
(7 Hrs)

id C++

2001

lition,

1. Write a C program to search for an element in an array using Binary search
2. Write a C program to sort a list of N elements using Bubble sort Technique
3. Write a C program to demonstrate the working of stack of size N using an array. The elements of the stack may assume to be of type integer or real, the operations to be supported are 1. PUSH 2. POP 3. DISPLAY. The program should print appropriate messages for STACK overflow, Under flow and empty, use separate functions to detect these cases
4. Write a C program to simulate the working of an ordinary Queue using an array. Provide the operations QINSERT, QDELETE and QDISPLAY. Check the Queue status for empty and full.
5. Write a C program to simulate the working of an Circular Queue using an array. Provide the operations CQINSERT, CQDELETE and CQDISPLAY. Check the Circular Queue status for empty and full.
6. Using dynamic variables and pointers Write a C program to construct a singly linked list consisting of the following information in each node;
Roll – No (Integer), Name (Character string)
The operations to be supported are ;
 1. LINSERT Inserting a node in the front of the list
 2. LDELETE Deleting the node based on Roll – No
 3. LSEARCH Searching a node based on Roll-No
 4. LDISPLAY Displaying all the nodes in the list
7. Write a C program to sort a list of N elements using Merge sort Algorithm
8. Using Dynamic variables and pointers construct Binary search tree of integers , Write C functions to do the following ;
 1. Given a KEY, Perform a search in Binary search tree . If it is found display Key found else insert the key in the Binary search tree.
 2. While constructing the Binary search tree do not add any duplicate
 3. Display the tree using any of the traversal method
9. Write a C program to sort a list of N elements of integer type using heap sort Algorithm
10. Write a C program to simulate the working of Towers of Hanoi problem for N disks , print the total number of Moves taken by the program.
11. Write a C program to sort a list of N elements of integer type using quick sort Algorithm
12. Write a C program to find n_c using recursion
13. Write a C program to convert and print a given valid fully parenthesized in fix arithmetic expression to post fix expression, the expression consists of single character (letter or digit) as operands and +, -, * , / as operators, assume that only binary operators are allowed in the expression
14. Write a C program to search for an element using sequential search
15. Write a C program to create file for N students, it should contain Roll-No, Name and Marks in two subjects. Using the above created file, create an out put file which contains Roll-No, Name, Marks in subjects, Total and Average.

BCA306T – NUMERICAL ANALYSIS and LINEAR PROGRAMMING

Total: 52 Hrs

- I. Floating-point representation and errors-Normalized floating-point forms, Errors in representing numbers, Floating point machine number and machine epsilon, Loss of significance and its avoidance(Chapter 2 in Cheney and Kincaid). 6 Hrs
- II. Roots of equations-locating roots of $f(x)=0$ Bisection method and convergence analysis, Newton's method and convergence analysis, failure of Newton's method due to bad starting points, modification of Newton's method for multiple roots, Newton's method for System of Non-linear equations, Secant method and convergence analysis, Golden ratio (Chapter 3 in Cheney and Kincaid). 8 Hrs
- III. Interpolation and numerical differentiation-polynomial interpolation and its existence Lagrange and Newton form of interpolating Polynomial, Divided difference and recursive property , Inverse interpolation ,Error in Polynomial interpolation, First and Second derivative formulae via interpolation Polynomials. (Chapter 4 in Cheney and Kincaid). 8 Hrs
- IV. Numerical integration-Trapezoidal, Simpson's and adaptive Simpson rules and Error analysis, (Chapters 5 and 6 in Cheney and Kincaid). 6 Hrs
- V. System of linear equations-Gaussian elimination and back substitution –partial and complete pivoting, Tridiagonal and pentadiagonal banded systems, Thomas algorithm, Doolittle, Cholesky and Crout LU decomposition methods, Jacobi and Gauss –Seidel iterative methods and convergence theorems. Power (and inverse power) method of obtaining largest (smallest) eigenvalue and corresponding eigenvector. (Chapters 7 and 8 in Cheney and Kincaid). 8 Hrs
- VI. Ordinary differential equations- initial value problem, Picard's, Taylor series, Runge-Kutta first, second and fourth order methods, adaptive Runge-Kutta method of fifth order (derivation of only Runge-Kutta first and second order methods), boundary value problems-shooting methods for linear differential equations. (Chapters 10, 11 and 14 in Cheney and Kincaid). 8 Hrs
- VII. Linear programming-first Primal form, Graphical solution method, Transforming problems into first primal form, dual problem, Theorem on primal and dual problems, Second Primal form. Simplex method , Approximate solution of inconsistent linear systems. (Chapter 17 in Cheney and Kincaid). 8 Hrs

Text Book

1. Cheney E. W. and Kincaid D. R. "Numerical Method and Applications, Cengage learning (Book/cole)-Indian Edition(2008).

Reference Books

1. Jain M. K. ,Iyengar S. R. K. and Jain R. K. " Numerical methods for Scientific and Engineering Computation "
2. Sastry S. S. " Introductory methods of Numerical Analysis ", PHI(2005).

BCA306P – NUMERICAL ANALYSIS and LINEAR PROGRAMMING Lab

- 1) Write a program to find the roots of an equation $f(x) = 0$ using Bisection method.
- 2) Write a program to find the simple/multiple roots of $f(x) = 0$ using Newton – Raphson method.
- 3) Write a program to find the roots of system of non-linear algebraic equations using Newton's method.
- 4) Write a program to find the roots of $f(x) = 0$ using Secant method.
- 5) Write a program to find the integral of a function using Trapezoidal rule.
- 6) Write a program to find the integral of a function using Simpson's $1/3^{\text{rd}}$ and $3/8^{\text{th}}$ rule using switch case.
- 7) Write a program to find the integral of a function using adaptive Simpson method.
- 8) Write a program to solve the system of equations $Ax = b$ in tridiagonal form using Thomas Algorithm.
- 9) Write a program to solve the system of equations $Ax = b$ using Gauss elimination method.
- 10) Write a program to solve the system of equations $Ax = b$ using Jacobi Iteration method.
- 11) Write a program to solve the system of equations $Ax = b$ using Gauss-Seidel method.
- 12) Write a program to find the largest (or smallest) Eigen value and corresponding eigen vector of a square matrix using power (or inverse power) method.
- 13) Write a program to solve first and second order ordinary differential equations (initial value problem) using Runge-Kutta fourth order method.
- 14) Write a program to solve first order ordinary differential equations (initial value problem) using adaptive Runge-Kutta method .
- 15) Write a program to solve second order ordinary differential equations (boundary value problem) using shooting method based on adaptive Runge-Kutta method and Newton-Raphson method.
- 16) Write a program to solve the optimization problem solvable by Simplex method.

**FOURTH SEMESTER
BCA401T – INDIAN LANGUAGE**

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA402T – ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

**BCA403T – ENVIRONMENTAL STUDIES
As approved by the Environmental Science Board**

- Total : 52 hrs**
- Unit 1: Nature of environmental studies:** Definition, scope and importance, Multidisciplinary nature of environmental studies, need for public awareness.
- Natural resources and associated problems:** (a) **Forest resources:** Use and over-exploitation, deforestation timber extraction, mining, dams and their effects on forests and tribal people, (b) **Water resources:** Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. (c) **Mineral resources:** Use and exploitation, environmental effects of extracting and using mineral resources. (d) **Food resources:** World food problems, changes caused by agriculture effects of modern agriculture, fertilizer-pesticide problems. (e) **Energy resources:** Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. (f) **Land resources:** land as resources, and land degradation, man induced landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources Equitable use of resources for sustainable lifestyles. (10 Hrs)
- Unit 2: Ecosystems:** Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction, types, Characteristic features, structure and function of the following ecosystem: a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (10 Hrs)
- Unit 3: Biodiversity and its conservation:** Introduction-Definition: genetic, species and ecosystem diversity, Biogeographical classification of India, Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option value, Biodiversity at global, national and local levels, India as a mega-diversity nation, Western ghat as a biodiversity, Hot-spots of biodiversity, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife Conflicts, Endangered and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ, Conservation of biodiversity. (10 Hrs)
- Unit 4: Environmental Pollution:** Definition, causes, effects and control measures of: a) Air pollution b) Water pollution c) Soil pollution d) Marine pollution e) Noise pollution f) Thermal pollution g) Nuclear hazards., Solid waste management: causes, effects and control measures urban and industrial wastes, Role of an individual in prevention of pollution, Disaster management: folds, earthquake, cyclone and landslides, Tsunami. (10 Hrs)
- Unit 5: Social Issues and Environment:** From Unsustainable to Sustainable development, Urban problems related to energy, Water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of people; its problems and concerns, Environmental ethics: Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust,

Wasteland reclamation, consumerism and waste products, Environment protection Act, Air (Prevention and control of pollution) Act., Water (Prevention and control of pollution) Act., Wildlife protection act, Forest conservation Act, Issues involved in enforcement of environmental legislation public awareness. (8 Hrs)

Unit 6: Human Population and the Environment: Population growth, variation among nations, Population explosion, Family welfare programme, Environment and human health, Value Education, Women and Child Welfare, Role of information technology in Environmental and human health. (4 Hrs)

References:

1. S. Sinha, M. Shukla & R. Shukla, *Text book of Environmental studies* AITBS Publishers, Delhi. (2005)
2. Agarwal, K.C., 2001 *Environmental Biology*, Nidi Publ. Ltd. Bikaner.
3. Bharucha Erach, *The Biodiversity of India*, Mapin publishing Pvt. Ltd. Ahmedabad-380013, India.
4. Brunner R.C., 1989, *Hazardous Waste Incineration*, McGraw Hill Inc. 480p.
5. Clark R.S. *Marine pollution*, Clarendon Press Oxford.
6. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001 *Environmental Encyclopedia*, Jaico Publ. House. Mumbai, 1196p.
7. De. A.K. *Environmental Chemistry*, Wiley Eastern Ltd.,
8. *Down to Earth*, Centre for Science and Environment.
9. Gleick, H.P. 1993 *Water in crisis*, pacific institute for studies in Dev. Environmental & Security. Stockholm Env. Institute. Oxford University press 473p.
10. Hawkins R.E. *Encyclopedia of Indian Natural History*, Bombay Natural History Society, Bombay,
11. Jadhav H & Bhosle V.M. 1995 *Environmental Protection and laws*. Himalayas Pub. House Delhi, 284p
12. Mckinney M.L. & Schoel R.M. 1996 *Environmental Science systems & Solutions* Web. Enhanced edition 639p.
13. Heywood, Vh & Watson R.T. 1995 *Global biodiversity Assesment* Cambridge. Univ. press 1140p
14. Mhaskar A.K. *Matter Hazardous Techno-Science Publications*.
15. Miller T.G. Jr. *Environment Science* Wadsworth publishing co.
16. Odum E.P. 1971 *Fundamental of Ecology* W.B. Saunders Co. USA 574p
17. Rao M.N. & Data A.K. 1987 *Waste Water treatment*, Oxford and IBH Publ. Co pvt, ltd 345p
18. Sharma B.K. 2001 *Environmental chemistry* Goel Publ. House, Meerut.
19. Townsend C. Harper. J. and Michel Begon, *Essesetials of Ecology* Blackwell Science.
20. Trivedi R.K. *Handbook of Environmental Laws, rules, guidelines, ompliances and Standards*, Vol I and II Enviro Media.
21. Trivedi R.K. and P.K. Goel *introduction to air pollution*, Techno-Science Publications.
22. Wagner K.D. 1998 *Environmental Management*. W.B. Saunders Co. Philadelphia, U.S.A. 499p.
23. Benny Joseph – *Environmental Studies 2/e* TMH 2008
24. Miller : *Environmental Science* , 11th Edition 2008, Cengage Learning India

BCA404T – DATA COMMUNICATION AND NETWORKS

Total: 52 Hrs

1. Communication Networks & Services

Approaches to Network design: Network Goals, Network Topologies, Switching Techniques: Message, Packet and Circuit switching,

Evolution of Network Architecture and Services

(i) Telegraph Networks and Message switching

(ii) Telephone Networks and Circuit switching

(iii) Internet, Computer Network and Packet switching

Essential elements of Network Architecture

Key factors in Communication Network Evolution

(6 hrs)

2. Layered Architecture & Applications

Examples of Layering: OSI Reference Model, TCP/IP Model

Application Layer Protocols and TCP/IP utilities : Telnet, FTP, HTTP and IP utilities like PING, TRACEROUTE, IPCONFIG, NETSTAT

(4 hrs)

3. Digital Transmission

Digital representation of information, Basic properties of digital transmission systems, Characterization of communication channels: Frequency domain and Time domain, Fundamental limits in digital transmission: Nyquist signaling rate, Shannon channel capacity, Line coding.

Modems and Digital modulation: Amplitude shift keying, Frequency shift keying, Phase shift keying.

Transmission media: Twisted Pair, Coaxial cable, Optical Fibre, Radio transmission, Infra red Light.

Error detection and correction: Error detection, two dimensional parity checks, internet checksum, polynomial codes and their error detection capability

Multiplexing: Frequency Division Multiplexing, Time Division Multiplexing, Wavelength Division Multiplexing, SONET Multiplexing

Circuit Switches: Space division switches, time division switches

(12 hrs)

4. Peer-To-Peer Protocols

Connection oriented and connectionless service models, Features of Services offered by a given layer, Peer to peer protocols in end to end and single hop network

ARQ protocols: Stop and wait, go back N, Selective Repeat

Other peer to peer protocols: Sliding window flow control, Timing recovery for synchronous services, TCP Reliable stream service and flow control

Data Link Control – Framing, Point to Point Protocol (PPP), High level Data Link Control (HDLC).

(10 hrs)

5. Medium Access Control Protocols

Multiple access communications,

Random access MAC protocols: ALOHA, Slotted ALOHA, CSMA, CSMA/CD

Scheduling approaches to medium access control: Reservation systems, polling, Token passing rings, Comparison of Scheduling approaches in medium access control,

Comparison of random access and scheduling medium access controls

Channelization: FDMA, TDMA, CDMA

(7 hrs)

6. Local Area Networks

LAN structure, MAC sublayer, Logical Link Control layer (LLC), LAN Standards: Ethernet and IEEE 802.3 LAN standard, Token Ring and IEEE 802.5 LAN standard, FDDI, Wireless LANs and IEEE 802.11 standard, LAN bridges: Transparent bridges, Source Routing bridges, Mixed-media bridges. (7 hrs)

7. Packet Switching Networks

Network services and Internal Network operation, Packet network topology, Datagrams and Virtual circuits, Connectionless packet switching: Virtual circuit packet switching, Structure of a packet switch

Routing in packet networks : Routing algorithm classification, Routing tables, Flooding, Hierarchical Routing, Shortest path routing algorithms (Bellman Ford Algorithm, Dijkstra's Algorithm), Link State routing, Distance Vector Routing

Congestion control algorithms: Open Loop control and Closed Loop control (6 hrs)

Text books

- 1) Douglas E Comer. "Networks and Internet with Internet Applications". Prentice Hall, 2004.
- 2) Stallings, Data and Computer Communications, 7/e, Pearson Education, 2003
- 3) Alberto Leon-Garcia & Indra Widjaja, Communication Networks – Fundamental Concepts & Key architectures, Mc.Graw Hill – 2000.

References

- 1) Andrew S Tanenbaum Computer Networks, 4/e, Pearson Education
- 2) S. Keshav, An Engineering Approach to Computer Networks, Pearson Education.
- 3) Behrouz Ferouzan, Introduction to Data Communications & Networking TMH, 1999.
- 4) Larry & Peterson & Bruce S Davis; Computer Networks Second Edition, Morgan Kaufman, 2000.
- 5) Hals, Data Communication, Computer Networks and Open Systems. Held, Understanding Data Communications.
- 6) Forouzan – Data Communications and Networking 4/e (SIE)
- 7) White : Data Communications and Networking 1st Edition, 2008, Cengage Learning India

BCA405T – VISUAL PROGRAMMING

Total: 52 hrs

Unit 1: Windows Programming: Traditional Programming Paradigms – Overview of Windows Programming – Data Types – Resources – Windows Messages – Device Contexts – Document Interfaces – Dynamic Linking Libraries – Software Development Kit (SDK) Tools – Context Help. 10 hrs

Unit 2: Visual Basic Programming: Introduction – Forms – Variables, Types – Properties – Decision Making – Looping – Modules – Procedures – Functions-Tool Box Controls – Menus – Grid Controls – Dialog Boxes – Database Manager – Data Control – Record set Objects. 20 hrs

Unit 3: Visual C++ Programming: Objects – Classes - VC++ Components – Resources – Event Handling – Menus – Dialog Boxes – Importing VBX Controls – Files – MFC File Handling – Document View Architecture – Serialization. 10 hrs

Unit 4: Interfacing Other Applications – Multiple Document Interface (MDI) – Splitter Windows – Exception Handling – Debugging – Object Linking and Embedding (OLE) – Database Application – DLL – ODBC. 12 hrs

Text Books :

1. *Visual Basic 6 by Gurumit singh (Aman) , Firewall media.*
2. *Deitel, Visual Basics 6- How to program. Pearson Education*

Reference Books:

1. *Windows Programming by Charles Petzold, Microsoft Press.*
2. *Visual Basic 6 from the ground up by Garry Cornell, TMH.*
3. *Visual C++ Programming by Steven Holzner, PHI.*
4. *Visual Programming by Yashwant Kanitkar.*

BCA405P – VISUAL PROGRAMMING LAB

Minimum of 15 related programs must be developed in the practical classes in such a way that integration of the programs leads to an application program. This should be a precursor to the mini projects to be taken up by the students in the fifth and sixth semesters.

BCA406T – UNIX PROGRAMMING

Total: 52 Hrs

1. **Introduction**
History, salient features, Unix system architecture, Unix command format, Unix internal and external commands, Directory commands, File related commands, Disk related commands, general utilities. (6)
2. **Unix File System**
Boot inode, super and data block, in-core structure, Directories, conversion of pathname to inode, inode to a new file, Disk block allocation. (2)
3. **Process Management**
Process state and data structures of a Process, User vs. kernel node, context of a Process, background processes, Process scheduling commands, Process terminating and examining commands. (6)
4. **Secondary Storage Management**
Formatting, making file system, checking disk space, mountable file system, disk partitioning, file compression. (6)
5. **Special Tools and Utilities**
Filters, Stream editor SED and AWK, Unix system calls and library functions, Processes, signals and Interrupts, storage and compression facilities. (8)
6. **Shell Programming**
Vi editor, shell types, shell command line processing, shell script features, executing a shell script, system and user-defined variables, expr command, shell screen interface, read and echo statement, command substitution, escape sequence characters, shell script arguments, positional parameters, test command, file test, string test, numeric test.
Conditional Control Structures – if statement, case statement
Looping Control Structure – while, until, for, statements.
Jumping Control Structures – break, continue, exit. (16)

7. Unix System Communication

Introduction, write, read, wall commands, sending and handling mails.

(4)

8. System Administration

Roles of a System Administrator, File System Maintenance, System Startup and Shutdown, User Management, Backup and Restore, Daemons, Domain Name System DNS, Distributed File System.

(4)

Text Books

- 1) Forouzan.: *Unix and Shell Programming, 1st Edition, 2008 Cengage Learning India*
- 2) Raymond, *The Art of Unix Programming, Pearson Education, Asia 2002.*
- 3) Kernighan B W & Robert B, *The Unix programming environment.*
- 4) *UNIX and Shell Programming, Archana Verma, Firewall Media.*

References

- 1) Glass, *Unix for Programmers and Users, 3/e Pearson Education*
- 2) Kernighan, *The Unix Programming Environment*
- 3) Sobell G, *A practical Guide to Unix System.*
- 4) Kochan, *Unix Shell Programming, Pearson*
- 5) Sumithaba Das – *UNIX: Concepts and Applications 4.e*

BCA406P - UNIX PROGRAMMING LAB SECTION A

Write Shell programs for the following:

1. To count the number of characters in a given string
2. To find whether the given year is leap year or not
3. To check whether a given number is even or odd
4. To find the factorial of a given number.
5. To print a string in the reverse order.
6. To count the number of vowels in a given string.
7. To print all prime numbers between m and n ($m < n$).
8. To check whether a given string is a palindrome or not.
9. Write a shell script that displays all the files in the current directory.
10. To write a shell script that creates a file and compresses it using:
a) compress b) pack

SECTION B

11. Create a file containing the following fields: student No., student name, age, sex, height and weight. Print all the details in a neat format.

Write menu based shell programs with at least 3 options for the following:

12. Payroll system

(16)

FIFTH SEMESTER
BCA501T – SOFTWARE ENGINEERING

Total: 52 Hrs

1. **Introduction:** Definition of Software engineering, Software product and software process, Software attributes, Software Engineering challenges, Software development life cycle, Process model: Water fall model, Bohemia's Spiral model, Iterative enhancement model, Overview of risk management, Project management, Process visibility, Professional and ethical responsibility. **(4 Hrs)**
2. **System Engineering:** System and their environment, System Procurement, System Engineering Process, System Architecture modeling, Human Factors, System Reliability Engineering. **(3 Hrs)**
3. **Software Requirement Analysis and Specification:** Software Requirements - Functional and Non Functional, Requirement elicitation and Analysis, SRS document, Requirement specification, Requirement Engineering Process, Requirement Validation, Requirement Management. Social 7 organizational factors, System Models – Types of models, Metrics. **(8 Hrs)**
4. **Software Prototyping:** Prototyping in software process, Prototyping techniques, User interface prototyping. **(2 Hrs)**
5. **Software Design:** Design types, Design principles – Problem partitioning, Abstraction, Modularity, Top-Down and Bottom-up, Design process, Design Strategies, Design quality, Coupling and Cohesion, Design notation and specification, Design methodologies, Domain Specific architecture. **(5 Hrs)**
6. **Object oriented design and function oriented design:** Object oriented concepts- Classes and objects, inheritance, polymorphism, Object identification, Object oriented analysis and design example, Design models, object interface specification, Data flow design, Structural decomposition, Detailed design. **(5 Hrs)**
7. **User Interface Design:** Design Issues, User interaction, Information presentation, User interface design process, user analysis, user interface prototyping, Interface evaluation. **(3 Hrs)**
8. **Reliability and reusability:** Software reliability metrics, software reliability specifications, statistical testing, reliability growth modeling, fault avoidance, fault tolerance, exception handling and defensive programming, software development with reuse, reuse landscape, design patterns, Generator based reuse, Application system reuse – COTS product reuse, software product lines. **(8 Hrs)**
9. **Testing:** Testing fundamentals – error, fault and failure, Test cases and test criteria, process, test plan and strategies, Types of testing – Black box, White box, structural and interface testing, Program inspection, Levels of testing, Mathematically based verification, Static analysis tool, Metrics. **(8 Hrs)**
10. **Software Management:** Project management, quality management, cost estimation, cost estimation models, Risk management, software maintenance. **(6 Hrs)**

Text Books

1. Ian Sommerville - Software Engineering, 6th Edition, Pearson Education Ltd.

Reference Books

1. Roger S. Pressman - Software Engineering, A Practitioner's approach, 5th Edition, McGraw-hill book company
2. Richard Fairly - Software Engineering Concepts, First Edition, TATA Mcgraw Hill Publishing Co Ltd.
3. Pankaj Jalote - An integrated approach to Software Engineering - Narosa Publishing house.
4. Jawadekar- Software Engineering: A Primer TMH 2008

BCA502T – COMPUTER ARCHITECTURE

Total: 52 Hrs

DIGITAL LOGIC CIRCUITS: Logic gates Boolean algebra, map simplification, combinational circuits, flip-flop, sequential circuits. (05)

INTEGRATED CIRCUITS AND DIGITAL FUNCTIONS: Digital integrated circuits, IC flip-flops and registers, decoders and multiplexers, binary counters, shift registers, random - access memories (RAM) read-only memories (ROM) (10)

DATA REPRESENTATION : Data types, fixed-point representation, floating-point representation, other binary codes, error detection codes. (05)

BASIC COMPUTER ORGANIZATION AND DESIGN: Instruction codes, computer instruction, timing and control, execution and instruction, input-output and interrupt, design of computer. (10)

CENTRAL PROCESSOR ORGANIZATION: Processor bus organization, arithmetic logic unit (ALU), instruction formats, addressing modes, data transfer and manipulation, program control, microprocessor organization. (10)

INPUT-OUTPUT ORGANIZATION: Peripheral devices, asynchronous data transfer, direct memory access (DMA), priority interrupt, input-output processor (IOP). (06)

MEMORY ORGANIZATION : Auxiliary memory, microcomputer, memory hierarchy, associative memory, virtual memory, cache memory. (06)

References:

1. M.Moris Mano, Computer System Architecture, 2nd Edition Prentice Hall of India (1991).
2. Heuring and Jordan, Computer systems design and Architecture, Pearson Education (2003)
3. William Stallings, Computer Organization and Architecture, Pearson Education (2003)
4. Floyd, Digital Fundamentals, 8th Edition, Pearson Education (2003)
5. Andrew S. Tenenbaum, Structured Computer Organization, 3rd Edition, Prentice Hall of India (1990)
6. David Patterson & Hennessy, Computer Organization & Design, Elsevier, 2005.
7. Carter - Computer Architecture (SIE) (Schaum's Outline Series)

BCA503T – BANKING AND INSURANCE

Total: 52 Hrs

UNIT I: Financial System: Institutions, Markets – Primary, Secondary, Money & Capital markets, instruments of money market, Functions and their economic significance. (12)

UNIT II: Commercial Banks-Functions, Structure of Commercial banks in India-Sources of funds, Investment norms-factors determining liquidity of banks-Asset Structure of Commercial banks-profitability of banks (12)

UNIT III: The concept of Risk & Insurance – classification of insurance-life insurance—types of General Insurance – insurance of property, pecuniary interest, liability and person – types of policies fire, marine, motor, engineering, aviation, agriculture, liability and person. (08)

UNIT IV: Essentials of a contract- Principles applicable to insurance business- utmost good faith- insurable interest-indemnity-subrogation and contribution – proximate cause-financial principles- premium funds- investments-reserves-surplus-valuation of funds. Introduction to risk- Risk Appraisal-risk selection-underwriting-Reinsurance-concepts and methods-facultative, treaty reinsurances and various methods. (12)

UNIT V: Growth and development of insurance – present day Regulatory environment- Insurance Act, 1938-IRDA Act, 1999-Present Market environment- intermediaries – Office organization-departments-files-correspondence-new technology, controls. (08)

References:

1. G. Kotreswar, *Risk Management, Insurance and Derivatives*-Himalaya Publishing House.
2. T.T. Seth, *Insurance Principles and Practice*- S Chand, New Delhi
3. Courses IC 01, IC 02, IC 11, IC 12, IC 25 of Insurance Institute of India, Mumbai
4. L.M. Shole – *Financial Institutions and Markets*, TMH.
5. K.C. Shekar & Lakshmy Shekar, *Banking Theory & Practice*, Vikas Publication (2001).

BCA504T – JAVA PROGRAMMING

Total: 52 Hrs

1. **Introduction:** Internet origin and development – internet architecture frame work-world Wide Web. (12)
2. **Introduction to JAVA:** JAVA Evolution: Java History, Java Features, How Java Differs from C and C++, Java and Internet, Java and World Wide Web, Web Browsers, Hardware and Software requirements, Java Support Systems, Java Environment. Overview of JAVA Language: Introduction, Simple Java Program, More of Java, An Application with Two Classes Java Program structure, Java Tokens, Java Statements, Implementing a Java Program, Java Virtual Machine, Command Line Arguments, Programming Style. Constants, Variables, and Data Types: Introduction, Constants, Variables, Data Types, Declaration of Variables, Giving Values to Variables, Scope of variables, Symbolic Constants, Type Casting, Getting Values of Variables, Standard Default Values, Operators and Expressions; Introduction, Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bitwise Operators, Special Operators, Arithmetic Expressions, Evaluation of Expressions, Precedence of Arithmetic Operators, Type conversion and Associativity, Mathematical Functions. Decision Making and Branching: Introduction, Decision Making with if Statement, Simple if Statement, The if else Statement, Nesting of if else Statements, The else if Ladder, The Switch Statement, The ?: Operator. Decision Making and Looping: Introduction. The while Statement, The do Statement, The for Statement, Jumps in Loops Labeled Loops. (12 Hrs)
3. **Classes, Arrays, Strings and Vectors:** Classes, Objects and Methods: Introduction, Defining a Class, Adding Variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors, Methods Overloading, Static Members, Nesting of Methods, Inheritance: Extending a Class Overriding Methods, Final Variables and Methods, Finalizer methods, Abstract Methods and Classes, Visibility Control. Arrays, Strings and Vectors: Arrays, One – dimensional Arrays, Creating an Array, Two – dimensional Arrays, Strings, Vectors, Wrapper Classes. (8 Hrs)
4. **Interfaces, Packages, and Multithreaded Programming:** **Interfaces:** Multiple Inheritance: Introduction, Defining Interfaces, Extending Interfaces, Implementing Interfaces, Accessing Interface Variables. **Packages:** Putting Classes together: Introduction, Java API Packages, Using System Packages, Naming Conventions, Creating Packages, Accessing a Package, Using a Package, Adding a Class to a Package, Hiding Classes. **Multithreaded Programming:** Introduction, Creating Threads, Extending the Thread Class, Stopping and Blocking a thread, Life Cycle of a thread, Using Thread Methods, Thread Exceptions, Thread Priority, Synchronization, Implementing the 'Runnable' Interface. (10 Hrs)
5. **Managing Exceptions, Applet Programming: Managing Errors and Exception:** Introduction, Types of Errors, Exceptions, Syntax of Exception Handling Code, Multiple Catch Statements, Using Finally Statement, Throwing Our Own Exceptions,

Using Exceptions for Debugging. Applet Programming: Introduction, How Applets Differ from Applications, Preparing to Write Applets, Building Applet Code, Applet Life Cycle, Creating an Executable applet, Designing a Web Page, Applet Tag, Adding Applet to HTML File, running the Applet, More about Applet Tag, Passing Parameters to Applets, Aligning the Display, More About HTML Tags, Displaying Numerical Values, Getting Input from the User. (12 Hrs)

6. **Graphics Programming, Input / Output: Graphics Programming:** Introduction, The Graphics Class, Lines and rectangles, circles, and Ellipses, Drawing Arcs, Drawing Polygons, Line Graphs, Using Control Loops in Applets, Drawing Bar Charts. **Managing Input / Output Files in JAVA:** Introduction, Concept of Streams, Stream Classes, Byte Stream Classes, Character Stream Classes, Using Streams, Other Useful I/O Classes, Using the File Class, Input/Output Exceptions, Creation of Files, Reading/Writing Characters, Reading/Writing Bytes, Handling Primitive Data Types, Concatenating and Buffering Files, Interactive Input and output, Other Stream Classes. (10 Hrs)

Text Books:

- 1) Shishir Gundavaram, *CGI Programming on the World Wide Web*, O'Reilly and Associates, (1996). (Chapter 1 – 7)
- 2) E. Balaguruswamy, *Programming with JAVA, A Primer*, 2nd Edition., TMH (1999), (Chapter 2 – 16)
- 3) Hathleen Halata, *Internet Programming with VB Script and Java Script*, Thomson Pub 2005.

References:

- 1) Thomas Boutel, *CGI programming in C and Perl*, Addison – Wesley, (1996).
- 2) Jeffrey Dwight et al, *Using CGI, (Second Edition)*, Prentice Hall, India, (1997).
- 3) Darrel Ince & Adam Freeman, *Programming the Internet with Java*, Addison – Wesley, (1997).
- 4) Ken Arnold & James Gosling, *The Java Programming Language*, Addison – Wesley, (1998)
- 5) Patrick Naughton & Herbert Schildt, *JAVA 2: The Complete Reference*, 3rd Edition, TMH, (1999).
- 6) Schildt: *JAVA The Complete Reference 7/e*
- 7) Khalid Mughal : *JAVA Actually*, 1st Edition 2008. Cengage Learning India
- 8) Wigglesworth : *JAVA Programming Advanced Topics 3rd Edition*, 2008, Cengage Learning India.

BCA504P – JAVA PROGRAMMING Lab

1. Write a program to find factorial of list of number reading input as command line argument.
2. Write a program to display all prime numbers between two limits.
3. Write a program to sort list of elements in ascending and descending order and show the exception handling.
4. Write a program to implement Rhombus pattern reading the limit form user.
5. Write a program to implement all string operations.
6. Write a program to find area of geometrical figures using method.
7. Write a program to implement constructor overloading by passing different number of parameter of different types.
8. Write a program to create student report using applet, read the input using text boxes and display the o/p using buttons.
9. Write a program to calculate bonus for different departments using method overriding.
10. Write a program to implement thread priorities.
11. Write a program to implement thread, applets and graphics by implementing animation of ball moving.
12. Write a program to implement mouse events.
13. Write a program to implement keyboard events.

BCA505P – PROJECT

BCA 506P - SOFT SKILLS & PERSONALITY DEVELOPMENT

The self concept : What is attitude? The process of attitude formation. You are the chief architecture of your self .Self management techniques.

Believe in your self : Self image and self esteem ,Building self confidence ,Environment we mix with, how to build self image ? ,Meaning and definition of personality.

Personal planning and success attitude : Prioritizing, creating the master plan , active positive visualization and positive attitude, How to build a success attitude, Spot analysis .

Self motivation & communication : Levels of motivation ,power of irresistible enthusiasm ,etiquettes and manners in a group, public speaking, oral and written communication , Body language, Importance of listening and responding, Tips for technical writing .

Leadership as a process : co-ordination while working in a team, Leadership styles, Leader & Team player , Management of conflict, Profiles of great and successful personalities, Role of career planning in personality development, How to face personal interviews and group discussions.

Reference books :

- 1) *Wallace : Personality Development 1st Edition, 2008 Cengage Learning India*
- 2) *Succeed for your self -Richard Denny (3rd edition)- Kogan page India*
www.vivagroupindia.com
- 3) *Unleashing Leadership – John Hoover & Angelo Valenti – Jaico publishing House –*
WWW.JAICOBOKS.COM
- 4) *Kundu, C.I.- Personality development, Sterling Bangalore.*
- 5) *Listening and Responding – Sandra D.Collins-Cengage Learning India*
- 6) *1,001 ways to inspire your organization, your team and your self – David E. Rye-*
Jaico publishing house

Objectives of the course

1. To provide an understanding of what is personality and what are the processes of developing one 's personality.
2. To make a student aware of his or her role in different settings such as son, daughter, sister, brother ,neighbor ,citizen and so on.
3. To create awareness about physical, intellectual, emotional, social, educational aspects of personality.
4. To provide skills of written and oral communication with focus on skill development.

Methodology of testing evaluation will be given in the beginning of the semester. Group discussions, case studies, presentations mock interviews are the general methods to be followed apart from conventional training and coaching.

SIXTH SEMESTER

BCA601T – DESIGN AND ANALYSIS OF ALGORITHMS

Introduction: Definition of algorithm, Characteristic of algorithm, Different Control Structures, Writing Structured Programs, Analysis of algorithm (7 hrs)

Divide and Conquer: General Method, Binary Search, Finding Maximum & Minimum., Merge Sort, Quick Sort. (10 hrs)

Greedy Method: General method, Knapsack Problem, Job Sequencing with deadline, Minimum – cost Spanning trees, Single – Source Shortest Paths (10 hrs)

Dynamic Programming: Introduction to Graphs, Definition types, Terms related to graph, General Method, Multistage Graphs, All pair Shortest Paths, 0/1 – knapsack, The traveling salesperson problem, Flow Shop Scheduling. (10 hrs)

Basic traversal & Search techniques: Search & traversal techniques for trees, Search & traversal techniques for graphs. (8 hrs)

Backtracking: General method, The 8- Queens Problem, Sum of subsets, Graph Coloring. (7 Hrs)

Text books:

1. Aho Ullman & Hopkraft "Design & analysis of Algorithms".
2. Sara Baase, Allen Van Gelder, Computer Algorithms , Introduction to design and Analysis, 3rd edn (9th reprint), Pearson, 2005.
3. Design & Analys of alogorithm- Horowitz & Sahni
4. Fundamentals of Computer algorithm – Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran.

References:

1. Berman : Algorithms , 1st Edition 2008, Cengage Learning India

BCA602T – SYSTEMS PROGRAMMING

Background: Machine Structure, Evolution of the Components of a Programming System., Assembler, Loaders, Macros, Compilers, Formal Systems. (3 Hrs)

Machine Structure, Machine Language and assembly language.: General Machine Structure, Machine Language, Assembly Language (8 Hrs)

Assemblers: General Design Procedure, Design of assembler, Statement of Problem, Data structure, Format of databases, algorithm, look for modularity, Table Processing: Searching and Sorting., The problem, Searching a table, linear Search, binary Search, Sorting, interchange sort, Shell Sort, Bucket Sort, Radix Exchange Sort, address calculation sort, comparison of sorts, hash or random entry searching. (10 Hrs)

MACRO LANGUAGE AND THE MACRO PROCESSOR: Macroinstruction, Features of macro facility, Macro instruction arguments, conditional macro Expansion, macro calls within macros, macro instructions defining macros., Implementation, Statement of problem, implementation of a restricted facility, A two pass algorithm. A single pass algorithm, implementation of macro calls within macros. Implementation within an assembles. (10 Hrs)

LOADERS: Loader schemes, Compile & go, General loading Scheme, absolute loaders, Subroutine Languages, Relocating loaders, Direct linking loaders, other loading Schemes – Binders, linking loaders, Overlays, Dynamic binders. Design of absolute loader., Design of a Direct linking loader Specification of problem, Specification of data structure, format of data bases algorithm. (10 Hrs)

COMPILERS: Statement of problem, Problem1: Recognizing basic Elements, Problem2: Recognizing Syntactic cutis & interpreting meaning, Problem3: Storage allocation., Problem4: Code Generation. Optimization (machine independent) optimization(machine dependent), Assembly Phase, General model of compiler (6 Hrs)

PHASES OF COMPILERS: Simple Structure of Compiler, Brief introduction to 7 Phases of Compilers, (5 Hrs)

Text books:

1. John J. Donowon , *System Programming*, TATA McGraw-Hil.
2. Beck: *System Software*, 3/e Pearson Education

References:

1. Dhamdhere: *System programming and Operating System TMH*

BCA603T – COMPUTER GRAPHICS

Total: 52 Hrs

Graphics Systems : Application of CG, CG classification-Graphic softwares- CRT Functioning- Factors Affecting CRT- Raster scan System – Shadow mask method, Display Processor with raster system- Raster co-ordinate system- color mapping- Instruction set and Raster System applications. (6 hrs)

Output Primitives : Line drawing methods-Direct, DDA and Bresenhams, line attributes, - Circle drawing-Direct and midpoint circle drawing-Ellipse Drawing- Bresenhams Ellipse Algorithm-Area filling- scan- line area filling and character attributes. (8 hrs)

Two dimensional Transformation :Basic Transformation, Translation, Rotation, Scaling- Reflection and Sheer matrix representations- Homogeneous co-ordinates- composite transformation- Raster methods for transformation. (8 hrs)

Windowing and Clipping : Viewing Transformations, Clipping process, Point clipping, Line Clipping, Cohen Sutherland line clipping algorithm, Midpoint Subdivision algorithm, Area clipping, Sutherland and Hodgeman Polygon clipping Algorithm, Text clipping. (6 hrs)

Three Dimensional Graphics : 3D-coordinate system, 3D-Display techniques, 3D-transformations, Polygon surfaces, Octrees, Bezier curves, Hidden surface removal, Depth buffer and scan-line method. (6 hrs)

Segments : Introduction, functions for segmenting, display file, segment attributes, display file compilation. (6 hrs)

Graphical Input Techniques : Positioning techniques, Grid, Constraints, Dynamic manipulation, Gravity field, Rubber band, Selection technique, Menu, Pointing and selection by naming. (8 hrs)

Graphical Input Devices : Keyboards, Mouse, Joystick, Touch Panels, Track ball (4 hrs)

Text Books:

1. *Donald Hearn & M. Pauline Baker, Computer Graphics C version, PHI 1990*
2. *Steven Harrington, Computer Graphics, MCGH.*

References:

1. *Newman & Sproull, Principles of Interactive Computer Graphics, McGraw Hill.*
2. *Yeshwant Kanetkar, Graphics Under C, BPB publications.*
3. *J.D. Foley, A.V. Dam, S.K. Feiner & J.F. Hughes, Computer Graphics, Addison Wesley, 1997.*
4. *Cooley, The Essence of Computer Graphics, Pearson Education*
5. *Sinha - Computer Graphics*

BCA604T - WEB PROGRAMMING

Total Hours : 52

Fundamentals of Web

15 Hrs

Internet, WWW, Web Browsers, and Web Servers, URLs, MIME, HTTP, Security, The Web Programmers Toolbox. XHTML: Origins and evolution of HTML and XHTML, Basic syntax, Standard XHTML document structure, Basic text markup, Images, Hypertext Links, Lists, Tables, Forms, Frames, Syntactic differences between HTML and XHTML.

CSS

6 Hrs

Introduction, Levels of style sheets, Style specification formats, Selector forms, Property value forms, Font properties, List properties, Color, Alignment of text, The Box model, Background images, The and <div> tags, Conflict resolution.

JavaScript

10 Hrs

Overview of JavaScript; Object orientation and JavaScript; General syntactic characteristics; Primitives, operations, and expressions; Screen output and keyboard input; Control statements; Object creation and modification; Arrays; Functions; Constructor; Pattern matching using regular expressions; Errors in scripts; Examples.

JavaScript and HTML Documents, Dynamic Documents with JavaScript

15 Hrs

The JavaScript execution environment; The Document Object Model; Element access in JavaScript; Events and event handling; Handling events from the Body elements, Button elements, Text box and Password elements; The DOM 2 event model; The navigator object; DOM tree traversal and modification.

Introduction to dynamic documents; Positioning elements; Moving elements; Element visibility; Changing colors and fonts; Dynamic content; Stacking elements; Locating the mouse cursor; Reacting to a mouse click; Slow movement of elements; Dragging and dropping elements.

5. XML

6 Hrs

Introduction; Syntax; Document structure; Document Type definitions; Namespaces; XML schemas; Displaying raw XML documents; Displaying XML documents with CSS; XSLT style sheets; XML processors; Web services.

Text Books

1. *Robert W. Sebesta: Programming the World Wide Web, 4th Edition, Pearson Education, 2008. (Chapters 1 to 9)*

Reference Books

1. *M. Deitel, P.J. Deitel, A. B. Goldberg: Internet & World Wide Web How to program, 3rd Edition, Pearson Education / PHI, 2004.*
2. *Chris Bates: Web Programming Building Internet Applications, 3rd Edition, Wiley India, 2006.*
3. *Xue Bai et al: The Web Warrior Guide to Web Programming, Thomson, 2003*
4. *Sklar : Principles of web design , 1st Edition, 2008 Cengage Learning India*
5. *Sklar : The Web Warrior Guide to Web Design Technologies, 1st Edition, Cengage Learning India*

BCA604P - Web Programming Lab

1. Create a form having number of elements (Textboxes, Radio buttons, Checkboxes, and so on). Write JavaScript code to count the number of elements in a form.
2. Create a HTML form that has number of Textboxes. When the form runs in the Browser fill the textboxes with data. Write JavaScript code that verifies that all textboxes has been filled. If a textboxes has been left empty, popup an alert indicating which textbox has been left empty.
3. Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.
4. Create a page with dynamic effects. Write the code to include layers and basic animation.
5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined function)
6. Write a JavaScript code to find factorial of N. (Use recursive function)
7. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
8. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.
9. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
10. Create a form consists of a two Multiple choice lists and one single choice list,

- The first multiple choice list, displays the Major dishes available.
- The second multiple choice list, displays the Starters available.
- The single choice list, displays the Soft drinks available.

The selected items from all the lists should be captured and displayed in a Text Area along with their respective costs. On clicking the 'Total Cost' button, the total cost of all the selected items is calculated and displayed at the end in the Text Area. A 'Clear' button is provided to clear the Text Area.

11. Write a JavaScript code block, which checks the contents entered in a form's Text element. If the text entered is in the lower case, convert to upper case. Make use of function to Uppercase ().
12. Create a web page using two image files, which switch between one another as the mouse pointer moves over the images. Use the onMouseOver and onMouseOut event handlers.

BCA605P –PROJECT

5786-BUP- 300- June 2011

SYLLABUS & REGULATIONS
FOR
B.COM HONOURS COURSE UNDER THE
CHOICE BASED CREDIT SYSTEM -2017



Department of Commerce
Bangalore University
Bengaluru

B.COM HONOURS UNDER THE CHOICE BASED CREDIT SYSTEM

I. OBJECTIVE

The Broad objective of the Bachelor of Commerce Honors Course is to impart to the Students, Professional education and Training in Various aspects of business and its environment and provide them with opportunities to develop conceptual , practical, research and analytical business skills in order to meet the challenges of business, Industry and education at the national and Global level.

II. ELIGIBILITY FOR ADMISSION

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST students and blind students, the minimum percentage of marks required is 45%.

III. DURATION OF THE COURSE

The course of study is three (03) years of Six Semesters.

IV. MEDIUM OF INSTRUCTION & CLASS ROOM STRENGTH OF STUDENTS

The medium of instruction shall be English and there shall be Maximum of 60 students in each section.

V. ACADEMIC CALENDAR

The course is spread over six semesters.

1. The odd semesters will commence in June / July.
2. The even semesters will commence immediately after the completion of the odd End Semester Examination (ESE).
3. Each semester will be for a duration of 19 weeks – 15 weeks for teaching, one week for mid semester tests and three weeks for end semester examination.

VI. ATTENDANCE

- a) For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b) A student shall be considered to have satisfied the requirement of attendance for the semester, if she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c) A student who fails to complete the course in the manner stated above shall not be permitted to take the semester final examination.
- d) Students representing the college / departmental activities will be granted attendance for the actual hours of participation.

VII. TEACHING AND EVALUATION

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective Board of Studies.

VIII. SCHEME OF EXAMINATION

a. There shall be a examination at the end of each semester. The maximum marks for examination in each paper shall be 70.

b. The marks based on attendance shall be awarded as given below:

- 75% to 80% = 02 marks.
- 81% to 85% = 03 marks.
- 86% to 90% = 04 marks.
- 91% to 100% = 05 marks.

c. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

Assessment will be based on the performance of the candidate throughout the semester or the academic year as the case may be giving due consideration to the following components - *Knowledge, Skill, Application, Understanding of concepts and Creativity*. Assessment pattern for each paper will be done as follows.

Each paper will be for a maximum of 100 marks as shown below:

Particular	Internal Assessment	Theory Exam	Total
Subjects with Practical's	15 CIA 15 Practical's*	70	100
Subjects without Practical's	30 CIA	70	100

*Practical Exam

For subjects with Practical's, the internal assessment marks of 30 will be based on practical examination conducted at end of the semester carrying 15 marks and the CIA carrying 15 marks.

Continuous Internal Assessment (CIA) includes:

- 1st Test : 15 Marks
- Projects, Assignments, Presentations : 10 marks
- Current Affairs and News Analysis : 5 marks
- Total 30 Marks**

End Semester Examinations (ESE)

- ✓ There will be an end semester examination for the theory as well as practical papers.
- ✓ The question papers shall be set by the internal and external examiners from out of the panel suggested by the board of the studies. One of the papers is to be selected at random. All practical examinations will have two examiners – one external examiner and internal examiner.

For subjects having Practical Examinations (Information systems & Computers related) the marks allotment is as follows:

End semester practical examination	:	5 Marks
Viva voce examination	:	5 Marks
Record	:	5 Marks
Total Marks for Practical	:	15 marks

- ✓ The external examiner for the practical examinations can be from outside the college or a member of the faculty not handling the class, selected from the panel of examiners suggested by the board of studies.
- ✓ The second examiner will be an internal examiner.

Valuation:

- ✓ There shall be double valuation of the answer scripts, project report and field work papers of the ESE. One by the external examiner and other by the internal examiner.
- ✓ The average marks awarded by the internal and external examiners shall be taken as the marks obtained. However if there is difference of 20% or more in the marks awarded by the internal and the external examiners, the answer script shall be referred to the third examiner (who shall be an external) and the average of the nearest two shall be considered for the award of the marks.
- ✓ Re-total - A student who desires to challenge the marks awarded to her in any paper of ESE or asking for the re-totalling may do so by submitting an application along with the prescribed fee to the COE within 7 days of the declaration of the results. In case of challenge valuation the answer script shall be referred to the board of examiners for the final evaluation. The marks awarded by the board shall be final and binding.

IX. APPEARANCE FOR THE EXAMINATION

- A candidate shall apply for all the parts in each examination when she appears for the first time. A candidate shall be considered to have appeared for the examination only if she has submitted the prescribed application for the examination along with the required fees to the university.
- A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if she has studied and passed the language at the corresponding level.
- Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.

d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

X. CORPORATE INTERNSHIP

1. The internship is to be carried out through the vacation at the end of the semesters. The report to be submitted in the next semester and evaluated for 50 Marks
2. The duration of the internship is 4 weeks.
3. The report must be certified by the Company for the internship done by the student.

XI. COMMUNITY DEVELOPMENT ACTIVITY

1. The 3rd semester students are required to identify and undertake a community development project activity
2. The students may work in groups and submit a report on the same at the end of the semester.
3. Feedback must be obtained from the target community/group so as to assess the student's performance.

Project Work:

- ✓ Each student will choose a research problem related to business or any other organization and carry out a project work during the V & VI semesters and submit the project report at the end of the each semester. This will be evaluated for 50 & 200 marks respectively and it includes both report and Viva -Voce. The board of examiners will conduct the viva-voce examination.

MINIMUM MARKS FOR A PASS

Candidates who have obtained a minimum of 40% marks in CIA examination and 50% in aggregate (i.e., total of end semester examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

PATTERN OF QUESTION PAPER

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition.

The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,h,i,j (Conceptual questions) Answer any Eight

(08 X 02 = 16 Marks)

SECTION -B: 2,3,4,5,6,7. (Analytical questions) Answer any Four

(04 X 06 = 24 Marks)

SECTION-C: 8,9,10,11. (Essay type questions) Answer any THREE

(03 X 10 = 30 Marks)

Total

70 Marks.

Ranking

- ✓ In all three ranks will be declared on the basis of CGPA of all the semesters put together.
- ✓ Students are not eligible for ranks under the following conditions
 - When they have failed in any paper in any of the semester.
 - When they have been booked for malpractice in any of the papers in any semesters.
 - When their conduct during the course of study is found to be unsatisfactory.
 - When they have not completed the prescribed credits.
 - When they have not participated in community projects.
 - When they have come on a transfer from some other institution with a different scheme of examination.

Issues of Marks Cards

- ✓ After the declaration of results of every semester students are provided with a marks statement issued by the college.

Award of the Degree

- ✓ On the recommendation of the academic council of the college the Bangalore University will award the degrees to the successful candidates.

Conduct of Examinations:

1. No candidate shall be admitted to the examination hall after 30 minutes of the commencement of the examination.
2. No candidate is allowed to leave the hall within 30 minutes of the commencement of the examination.

Malpractices:

1. Students indulging in malpractices i.e. possession of or accessible to papers, books, notes, or, any such other means which might possibly be of assistance to, or, have or found giving or receiving assistance, or copying from any paper, book or note, or allowing any other candidate to copy from her answer book, using or attempting to use any other unfair means, shall be debarred for a period which may extend to two academic years.
2. Mobile phones, palm tops, digital diaries are not permitted inside the exam hall. Anyone found possessing them will be debarred for a period of 2 academic years.

Grievances:

The candidates may convey their grievances if any to the concerned HODs in writing, which will be forwarded to the Controller of Examinations if it is genuine

Carryover of Papers:

Candidates should clear at least 50% of the papers of semester I in order to be eligible for the admission to the III semester and so on.

COURSE STRUCTURE AND SYLLABUS

Semester I

Paper	Paper title	Hours per week/Credits	CIA	End sem	Total marks
1.1	Language - I	4/2	30	70	100
1.2	Language – II : English	4/2	30	70	100
1.3	Financial Accounting	4/2	30	70	100
1.4	Indian Financial System	4/2	30	70	100
1.5	Management & Behavioural process	4/2	30	70	100
1.6	Corporate Law & Governance	4/2	30	70	100
1.7	Quantitative Analysis-1	4/2	30	70	100
1.8	Foundation Course*	3/2	30	70	100
1.9	CC & EC*	0/1	50	-	50
	Internship in Manufacturing Industry for four weeks Report to be submitted in II Sem.				
	Total Credits- 17				

Semester II

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
2.1	Language – I	4/2	30	70	100
2.2	Language – II : Business Communication	4/2	30	70	100
2.3	Corporate Accounting- 1	4/2	30	70	100
2.4	Quantitative Analysis-2	4/2	30	70	100
2.5	Banking Law and Operations	4/2	30	70	100
2.6	Cost Accounting-1	4/2	30	70	100
2.7	Market Behaviour and Cost analysis	4/2	30	70	100
2.8	Foundation Course*	3/2	30	70	100
2.9	CC & EC*	0/1	50	-	50
	Internship in service Industry (report to be submitted in II sem.)	-	-	-	50
	Total Credits- 17				

Semester III

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
3.1	Corporate Accounting-2	4/2	30	70	100
3.2	Financial Management	4/2	30	70	100
3.3	Business Data Analytics	4/2	30	70	100
3.4	Financial Reporting	4/2	30	70	100
3.5	Human Resource Management	4/2	30	70	100
3.6	Production & Operations Mgt.	4/2	30	70	100
3.7	Cost Accounting-2	4/2	30	70	100
3.8	Foundation Course*	3/2	30	70	100
3.9	CC & EC*	0/1	50	-	50
	Community Project				50
	Total Credits- 17				

Semester IV

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
4.1	Entrepreneurship Development	4/2	30	70	100
4.2	International Business	4/2	30	70	100
4.3	Income Tax	4/2	30	70	100
4.4	Marketing Management	4/2	30	70	100
4.5	E- Business	4/2	30	70	100
4.6	Business Information System	4/2	30	70	100
4.7	Stock and Commodity Markets	4/2	30	70	100
4.8	Foundation Course*	3/2	30	70	100
4.9	CC & EC*	0/1	50	-	50
	Small Business development project				50
	Total Credits- 17				

Semester V

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
5.1	Management Accounting	4/3	30	70	100
5.2	Logistic and supply chain Management	4/3	30	70	100
5.3	Auditing	4/3	30	70	100
5.4	Elective – I	4/3	30	70	100
5.5	Elective – II	4/3	30	70	100
5.6	Elective – III	4/3	30	70	100
5.7	Elective- IV	4/3	30	70	100
5.8	Elective- V	4/3	30	70	100
5.9	SDC	3 /2	30	70	100
	Project work				50
	Total Credits- 26				

Semester VI

Paper	Paper title	Hours per week/ credits	CIA	End Sem	Total marks
6.1	Business Regulations	4/3	30	70	100
6.2	Quantitative techniques	4/3	30	70	100
6.3	Advanced Management Accounting	4/3	30	70	100
6.4	Elective – I	4/3	30	70	100
6.5	Elective – II	4/3	30	70	100
6.6	Elective – III	4/3	30	70	100
6.7	Elective- IV	4/3	30	70	100
6.8	Elective- V	4/3	30	70	100
6.9	SDC	3 /2	30	70	100
	Project Report		50 (Viva Voce)	100(Report)	150
	Total Credits-26				

ELECTIVES

ACCOUNTING & TAXATION GROUP

Advanced Accounting
Accounting Standards
Business Taxation
Corporate Tax Planning
Indirect Tax

FINANCE GROUP

International Finance
Strategic Financial Management
Corporate Financial Policy
Security Analysis & Portfolio Management
Financial Risk Management

BUSINESS INFORMATION AND TECHNOLOGY GROUP

Accounting Information Systems
Enterprise Resource Planning
Big Data Analytics
Information Technology and Audit
Banking Technology and Management

BANKING AND INSURANCE GROUP

International Banking & Forex Management
Life and General Insurance
Risk Management
Marketing of Insurance Products
Actuarial Science

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

- I. Constitution of Indian and Human Rights
- II. Environment and Public Health
- III. Computer Applications and Information Technology
- IV. Business Entrepreneurship and Management
- V. Philosophy, Psychology and Life Skills
- VI. Personality Development and Leadership / Integrating Mind, Body and Heart
- VII. Indian History, Culture and Diversity
- VIII. Research Methodology
- IX. Education and Literacy / Science and Life
- X. Human Resource Development .Management
- XI. One of the Foreign Languages such as German, French etc.
- XII. Any other Course prescribed by the College from time to time
- XIII. Commodity & Stock Market
- XIV. Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*) A student shall opt for any one of the following activities in the first four semesters offered in the college.

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the College/University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING (8 hrs)

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM (12 hrs)

Single entry system- Meaning – Features – Merits – Demerits – Types - Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM (12 hrs)

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only)

Unit 4: ROYALTY ACCOUNTS (12 hrs)

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and Lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY (12hrs)

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

1. List out various accounting concepts and conventions (GAAP)
2. List out Various Accounting Standards
3. Collecting & recording of Royalty agreement with regard to any suitable situation
4. Collecting and recording of Hire Purchase Agreement
5. Ascertainment of Cash Price and Interest with imaginary figures under Hire Purchase System

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarrajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit1: INDIAN FINANCIAL SYSTEM (10 hrs)

Pre-Nineties and Post-Nineties overview, Organizational structure of the Indian Financial System- Major Components- Financial Markets; Financial Institutions/ Intermediaries; Financial Instruments, Mutual Fund- Concept, Advantages of MF, History of MFs in India, Management of MF.

Unit 2: REGULATORY AND PROMOTIONAL INSTITUTIONS (6 hrs)

Reserve Bank of India, Securities and Exchange Board of India, IRDA, - Objectives and functions of RBI, SEBI and IRDA

Unit 3: PRIMARY MARKET (10 hrs)

Public Issue, Right Issue and Private Placement, Steps in Public Issue, Steps and Role of various agencies in public issue-Merchant Bankers, Underwriters, Brokers, Bankers to the Issue, Registrar to the Issue, Promotional agencies, Opening and Closing of Issue, Allotment / Refund, Listing of securities, Concept of Book Building

Unit 4: STOCK EXCHANGE (10 hrs)

Definition, Overview of Stock Exchanges in India, Trading on NSE - Capital Market Segment and Wholesale Debt Market Segment, Trading system under Capital Market Segment, Order types, cash/margin trading, Rolling settlement. Role of Broker, Clearing House, Depository in trading,

Unit 5: INTRODUCTION TO E-TRADING (8 hrs)

Money Market - Meaning, Instruments, features of the instruments. . Credit Rating,- Concept, Credit Rating Agencies in India, Rating Methodology and process, Rating symbols for Debentures/Bonds.

Unit 6: BANKING, NBFC'S AND INSURANCE (12 hrs)

Functions of Commercial Banks, Concept of E-Banking, NPA, Securitization and Universal Banking, NBFC- Meaning, Major functions of NBFC, Insurance: Introduction to LIC, GIC and Private Insurance Companies.. Venture Capital - Concept, Objectives, Development of Venture Capital in India, Venture Capital Investment process, Dis-investment Mechanism.

SKILL DEVELOPMENT

1. Draft a chart showing the financial services in the Indian Financial System.
2. List the Instruments traded in the Financial Markets.
3. Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
4. Collecting and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
5. Specimen of Debit and Credit cards.
6. Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MANAGEMENT & BEHAVIORAL PROCESS

OBJECTIVE

The Objective of the course is to give a basic perspective of Management theories and practices. This will form foundation to study other functional areas of management. Also this course provides insight into behavioral issues.

Unit 1: INTRODUCTION TO MANAGEMENT (12 hrs)

Definition, Types of Managers, Mintzberg Managerial roles, Functions of Management, Administration vs. Management, Evolution of Management Thought – Planning: Nature of planning, Steps in planning, types of planning, Levels of planning – The Planning Process. Decision Making: The process and techniques of decision making.

Unit 2: ORGANIZING (14 hrs)

Nature of organizing, organization levels and span of management – Factors determining span – Organizational design and structure –departmentation, line and staff concepts, staffing – delegation, decentralization and recentralization of authority – responsive organizations. Meaning and types of power – Empowerment – Groups vs. Teams – Nature of groups –dynamics of informal groups – dysfunctions of groups and teams – Teams in modern work place.

Unit 3: INTRODUCTION TO ORGANIZATIONAL BEHAVIOR (12 hrs)

Definition, Nature and Scope – Environmental and organizational context and the impact on organizations – Perception: Nature and importance of Perception – Perceptual selectivity and organization, Attribution theory. Personality and Attitudes – Meaning of personality – Johari Window and Transactional Analysis – Nature and Dimension of Attitudes- Behavioral Modification

Unit 4: MOTIVATION AND LEADING (10 hrs)

Theories of Motivation-Maslow's need hierarchy, Hertzberg's Two Factor Theory, Job design and Goal setting for High performance- Socio technical Design and High performance work practices. Leading: Leading Vs Managing – Leadership Theories- Leadership styles – developing leadership skills – transformational leaders, transactional leaders, Leadership in Cross-cultural environment – Evaluating Leader- Women and Corporate leadership.

Unit 5: COMMUNICATION AND CONTROL (8 hrs)

Meaning, Types of communication and barriers to effective communication in Organizations, Using Communication Skills to manage Conflicts. Controlling: Basic control process- Requirements for effective control – control techniques – Overall controls and preventive Controls.

SKILL DEVELOPMENT

1. Different types of Organization Charts (structure).
2. Chart on Staffing.
3. Graphic representation of Maslow's Theory.
4. Chart on Media of Communication.
5. Draft Control chart for different industries / business groups.

BOOKS FOR REFERENCE

1. Koontz, Weihrich & Aryasri: Principles of Management, TMH, New Delhi, 2009
2. Luthans, Fred: Organizational Behavior, 11/e, McGraw Hill, 2009
3. Stoner, Freeman and Gilbert: Jr. Management, Pearson, New Delhi, 2009.
4. Aryasri & VSP Rao: Management and Organizational Behavior, Excel, 2009
5. Kavitha Singh: Organizational Behavior, Pearson, 2009.
6. Kellogg: Conflict in Organizational Groups, Kogan Page, 2009
7. John M. Ivancevich: Organizational Behavior & Management, TMH, 2009
8. Schermerhorn: Management, Wiley 2009
9. Pierce and Gardner: Management and Organizational Behavior: An Integrated Perspective, Cengage, 2009.
10. BPP: Organizational Behavior, Viva, 2009
11. Aswathappa: Organizational Behavior, Himalaya, 2009
12. Certo and Certo: Modern Management, 10/e, PHI, 2009
13. R Satyaraju & A. Parthasarathy: Management Text and Cases, PHI, 2009.
14. Prem Vrat, K K Ahuja, P K Jain: Case Studies in Management, Vikas, 2006.

1.6 CORPORATE LAW & GOVERNANCE

OBJECTIVE

The objective is to enable the students to get familiarized with the existing Corporate Law and Governance.

Unit 1: CORPORATE PERSONALITY (6 hrs)

The Companies Act 1956 as repealed by Companies Act 2013, Definition of Company, Illegal association, Classes of companies.

Unit 2: FORMATION OF A COMPANY (10hrs)

Promoters – Incorporation - Memorandum of Association -Articles of Association.

Unit 3: CORPORATE FINANCING (10hrs)

Shares and debentures – Application and allotment of shares - members and Shareholders - Shares and share capital – Charges – Dividends – Borrowings and lending – Inter-Corporate Investments

Unit 4: CORPORATE GOVERNANCE (10hrs)

Directors – Meetings - Accounts and Audits – Auditors - Corporate Social Responsibility - Majority powers and minority rights - Prevention of oppression and mismanagement - Insider trading – Investigation.

Unit 5: MERGERS AND ACQUISITIONS, COMPROMISES (10hrs)

Winding up and kinds of winding up - Administration of NCLT and CLAT and Special Courts - Powers of liquidators

Unit 6: CORPORATE GOVERNANCE (10hrs)

Basic understanding of Corporate Governance under Companies Act 2013, Corporate governance practices in India, Tools for ensuring Governance:

- Cost Audit Methodology and Corporate Governance
- Internal Audit for Governance – nature, scope, function, planning process, investigation of fraud, internal audit reports
- Statutory Audit for Governance
- An introduction to e-governance and XBRL

SKILL DEVELOPMENT

1. Drafting of Memorandum of Association, Drafting Articles of Association.
2. Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
3. Drafting Resolutions of various meetings – different types.
4. Chart showing different types of Companies.
5. Collecting & recording the practice of corporate governance in India

BOOKS FOR REFERENCE

1. Dr. Avtar Singh - Company Law.
2. Gower & Davies – The Principles of Modern Company Law.
3. Ramaiah - Companies Act
4. Reddy Appaniah- Company Law
5. Raghavendra K S & Tamil Selvan, Corporate Administration, Thakur Publishers.

1.7 QUANTITATIVE ANALYSIS-1

OBJECTIVE

The objective is to provide basic knowledge of mathematics and their application to commercial situations.

Unit 1: NUMBER SYSTEM (6hrs)

Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems).

Unit 2: THEORY OF EQUATIONS (10hrs)

Introduction – Meaning - Types of Equations – Simple/ Linear Equations and Simultaneous Equations (only two variables), Elimination and Substitution Methods only. Quadratic Equation – Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Applications

Unit 3: MATRICES AND DETERMINANTS (14hrs)

Meaning – types – operation on matrices – additions – subtractions and multiplication of two matrices – transpose – determinants – minor of an element – co-factor of an element –inverse – crammers rule in two variables – application oriented problems.

Unit 4: COMMERCIAL ARITHMETIC (16hrs)

Simple Interest, Compound Interest including half yearly and quarterly calculations, Annuities, Percentages, Bills Discounting, Ratios and proportions, duplicate-triplicate and sub-duplicate of a ratio. Proportions: third, fourth and inverse proportion - problems.

Unit 5: PROGRESSIONS (10hrs)

Arithmetic Progression - Finding the „nth term of AP and Sum to nth term of AP. Insertion of Arithmetic Mean Geometric Progression – Finding the n'th term of GP and sum to „ n“ the term of GP and insertion of Geometric Mean.

SKILL DEVELOPMENT

1. Develop an Amortization Table for Loan Amount – EMI Calculation
2. Secondary overhead distribution summary using Simultaneous Equations Method
3. Preparation of Bank Statement
4. Application of Matrix In Business Problems

BOOKS FOR REFERENCE

1. Saha: Mathematics for Cost Accountants, Central Publishers
2. R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
3. Dr. Sancheti & Kapoor: Business Mathematics and Statistics, Sultan Chand
4. Zamarudeen: Business Mathematics, Vikas
5. R.S Bhardwaj :Mathematics for Economics & Business
6. Madappa, Mahadi Hassan, M. Iqbal Taiyab – Business Mathematics, Subhash
7. G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publishers

Semester II

2.2 BUSINESS COMMUNICATION

OBJECTIVE

The objective of this subject is to develop effective business communication skills among the students

Unit 1: CONCEPT OF COMMUNICATION (10hrs)

Meaning, Definition, Process, Need and Feedback- barriers to effective Communication- Importance of listening- emergence of Communication as a key concept in the Corporate and Global world - Impact of technological advancements on Communication

Unit 2: METHODS AND MODES OF COMMUNICATION (12hrs)

Methods: Verbal and Nonverbal- Characteristics of Verbal and Non-verbal Communication- body language – Etiquette and mannerism in personal and business meetings -Business Etiquette Modes: Telephone and SMS Communication- Telegram- Facsimile Communication [Fax] Computers and E- communication, Video and Satellite Conferencing.

Unit 3: BUSINESS CORRESPONDENCE (12hrs)

Theory of Business Letter Writing -- Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing Principles of effective Email Writing Business letters-Enquiry, placing orders, complaints, Persuasion of customers, credit collection, Bank related, Govt. related letters.

Personnel Correspondence – Statement of Purpose Job Application Letter and Resume Letter of Acceptance of Job Offer, Letter of Resignation ,Letter of Appointment, Promotion and Termination, Letter of Recommendation

Unit 4: LANGUAGE AND WRITING SKILLS (10hrs)

Paragraph Writing -Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc Interpretation of technical data, Composition on a given situation, a short informal report etc.

Unit 5: PRESENTATION SKILLS (12hrs)

Principles of Effective Presentation Effective use of OHP Effective use of Transparencies - How to make a Power-Point Presentation -Group Communication – Group discussion-Interviews – Group Discussion - Preparing for an Interview Types of Interviews – Selection, Appraisal, Grievance, Exit Meaning and Importance of Conference - Organizing a Conference Modern Methods: Video and Tele – Conferencing -Meetings -- Need and Importance of Meetings, Conduct of Meeting and Group Dynamics - Role of the Chairperson, Role of the Participants Drafting of Notice, Agenda and Resolutions

SKILL DEVELOPMENT

1. Extempore speeches, Just a Minute.
2. Conducting Stress Interviews.
3. Creative Exercise
4. Role play.

BOOKS FOR REFERENCE

1. R.O. Sharma & Krishna Mohan: Business Communication & Report Writing, TMH, New Delhi.
2. Raman. S & Swami. R: Business Communication – A Practical Approach, Professional Publications, Madras.
3. Ramesh & Pattanashetti: Effective Business English & Correspondence.
4. Sehgal/ Khetarpal- Business Communication
5. Majumdar: Commercial Correspondence.
6. Pink and Thomsan: English Grammar, Composition and Correspondence.
7. R.K. Madhukar : Business Communications, Vikas.
8. Bhardwaj : Fundamental of Business Communication, I.K. International Publishers
9. Kumar: Business Communication.
10. Bovee: Business Communication Today.
11. Sharma & others – Business Communications.
12. Rai Rai : Business Communication, HPH, Mumbai
13. Ritwik Haldar ; AT.B of Business Communication

2.3 CORPORATE ACCOUNTING-1

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES (8hrs)

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries)

Unit 2: PROFIT PRIOR TO INCORPORATION (12hrs)

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL (8hrs)

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, and Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems

Unit 4: VALUATION OF SHARES (8hrs)

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems

Unit 5: COMPANY FINAL ACCOUNTS (20hrs)

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per revised schedule)

SKILL DEVELOPMENT

1. Collect and fill the share application form of a limited Company.
2. Collect Prospectus of a company and identify its salient features.
3. Collect annual report of a Company and List out its assets and Liabilities.
4. Collection of latest final accounts of a company and find out the intrinsic value of shares
5. Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

2.4 QUANTITATIVE ANALYSIS-2

OBJECTIVE

The objective is to provide basic knowledge of statistics and their application to business situations.

Unit 1: INTRODUCTION TO STATISTICS (8hrs)

Meaning and Definition – Functions – Scope – Limitations, Collection of data - census and sample techniques, Classification of data, preparation of frequency distribution and tabulation of data

Unit 2: MEASURES OF CENTRAL TENDENCY (12hrs)

Meaning and Definition Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (excluding missing frequency problems), Graphical representation of median and mode – Ogive– curve, histogram, smoothed frequency curve and frequency polygon.

Unit 3: MEASURES OF DISPERSION AND SKEWNESS (12hrs)

Meaning & Definition -Range, Quartile Deviation, Mean Deviation Standard Deviation and Coefficient of Variation, Skewness: Meaning, uses, and problems on Karl Pearson's Co-efficient of skewness

UNIT 4: CORRELATION AND REGRESSION ANALYSIS (10hrs)

Meaning Importance, merits, demerits and analysis - Problems

Unit 5: INDEX NUMBERS (14hrs)

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (including TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

1. Draw a blank table showing different attributes
2. Collect marks scored 50 students in a examinations and prepare a frequency distributions table
3. Collect data relating to prices of shares of two companies for ten days and ascertain which companies shares prices is more stable
4. Collect the run scored by the two batsmen in ten one day international cricket matches, find who is better run getter and who more consistence.
5. Collect age statistics of 10 newly married couples and compute correlation coefficient
6. Collect age statistics of 10 newly married couples and compute regression equations; estimate the age of bride when age of bridegroom is given.
7. Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate Cost of Living Index.

BOOKS FOR REFERENCE

1. Anand Sharma : Statistics For Management, HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. D.P Apte ; Statistical Tools for Managers.
2. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
3. S.C Gupta: Business Statistics, HPH
4. N.V.R Naidu : Operation Research I.K. International Publishers
5. Ellahance : Statistical Methods, Kitab Mehel.
6. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
7. Veerachamy: Operation Research I.K. International Publishers
8. S. Jayashankar: Quantitative Techniques for Management.
9. Chikoddi & Satya Prasad : Quantitative Analysis for Business Decision, HPH
10. Dr. Alice Mani: Quantitative Analysis for Business Decisions - I, SBH.

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

(10hrs)

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

(10hrs)

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special relationships.

Unit 3: BANKING OPERATIONS

(18hrs)

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for value – Holder in Due Course - Statutory Protection to Collecting Banker Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques. Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

(12hrs)

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

(6hrs)

New technology in Banking – E-services – Debit and Credit cards, Internet Banking, Digital Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT, SWIFT.

SKILL DEVELOPMENT:

1. Collect and fill account opening form of SB A/c or Current A/c
2. Collect and fill pay in slip of SB A/c or Current A/c.
3. Draw specimen of Demand Draft.
4. Draw different types of endorsement of cheques.
5. Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
6. List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P Srivastava ; Banking Theory & Practice, Anmol Publications
4. M. Prakash, Bhargavi VR: Banking law & Operation, Vision Book House.
5. Tannan M.L: Banking Law and Practice in India, Indian Law House
6. Sheldon H.P: Practice and Law of Banking.
7. K. Venkataramana, Banking Operations, SHBP.
8. Kothari N. M: Law and Practice of Banking.
9. Neelam C Gulati: Principles of Banking Management.
10. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
11. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
12. S. Vipradas & j. K Syan: Bank Lending
13. Gajendra & Poddar : Law and Practice of Banking
14. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 COST ACCOUNTING-1

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING (10hrs)

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL (14hrs)

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL (10hrs)

Meaning – Types: Direct Labor, Indirect Labor - Timekeeping – Time booking – Idle Time – Overtime – Labor Turn Over. Methods of Labor Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL (14hrs)

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS (8hrs)

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

1. Identification of elements of cost in services sector by visiting any service sector
2. Cost estimation for the making of a proposed product
3. Draft the specimen of any two documents used in material account.
4. Collection and Classification of overheads in an organization on the basis of functions
5. Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting, HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting, HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

2.7 MARKET BEHAVIOR AND COST ANALYSIS

OBJECTIVE

To make the students familiar with concepts of market, market behavior and cost concepts for business analysis

Unit 1: FIRMS AND DECISIONS (6hrs)

Firm: Meaning and Goals, Profit versus Value (wealth) maximization dynamics. Decision making, decisions under market uncertainties, Tactical versus Strategic Decisions and Game Theory

Unit 2: MARKET FORCE (10hrs)

Demand: Meaning, Law of Demand, Nature of Elasticity of Demand, Determinants of Elasticity of Demand, Cost of Advertisement and Derived Demand Relations, Measurement of Price Elasticity under Total Outlay Method. Demand Forecasting- Meaning and Methods (problems on trend projection by least square method). Supply: Law of supply, Determinants of Supply.

Unit 3: COST AND PROFIT PLANNING (14hrs)

Cost: Meaning of short run and long run costs, fixed and variable costs, explicit and implicit costs, opportunity cost and incremental cost (concepts only). Total cost, average cost and Marginal Cost behavior in short run and long run (including problems on Marginal Cost Statement, CVP Analysis: BEP, BE Chart and calculation of margin of safety, P.V. ratio: profit planning on alternative cost and sales values).

Unit 4: PRICING PRACTICES AND STRATEGIES (16hrs)

Determinants of pricing policy, pricing methods: Marginal Cost Pricing, Target Rate Pricing, Product Line Pricing, administered pricing, competitive bidding, dual pricing, transfer pricing. Price discrimination: requirements, types and dumping strategies. Pricing over product life cycle: skimmed pricing, penetration pricing, product –line pricing and price leadership. Linear programming: problems on profit maximization and cost minimization in graphic method with two variables only.

Unit 5: COST OF CAPITAL AND CAPITAL BUDGETING (10hrs)

Meaning and forms of Capital, Specific Cost of Capital on debt, preference shares and equity shares and weighted average cost of capital (concepts only). Capital budgeting: Meaning and Significance, Present Value of Money and Its Calculation, Methods of Investment Appraisal (simple problems on PB period and NPV methods only).

SKILL DEVELOPMENT

1. Select and discuss the case studies that will have impact on business decision making in each chapter
2. A survey report on the demand forecasting for a product
3. Student to choose a product and apply price elasticity in real situation
4. Present a diagram showing business cycles

BOOKS FOR REFERENCE

1. P.L Mehta; Managerial Economics, Sultan Chand & Sons, New Delhi.12
2. R.L Varshney and K.L Maheshewari; Managerial Economics, Sultan Chand & Sons, New Delhi.
3. Karma Pal : Managerial Economics, Excel Books.
4. H.L Ahuja; Business Economics, S. Chand & Company Ltd., New Delhi

Semester III

3.1 CORPORATE ACCOUNTING-2

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: MERGERS AND ACQUISITION OF COMPANIES (16hrs)

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (IAS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet (Vertical Format)

Unit 2: INTERNAL RECONSTRUCTION (8hrs)

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems

Unit 3: LIQUIDATION OF COMPANIES (10hrs)

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account

Unit 4: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (14hrs)

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Accounting for Intangible Assets

Unit 5: INDIAN ACCOUNTING STANDARDS (8hrs)

Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards, International accounting standards: Meaning- need for International accounting standards International accounting standards Board (IASB) - process of setting International accounting standards- a brief theoretical study of International accounting standards. (Theory only)

SKILL DEVELOPMENT

1. Calculation of Purchase consideration with imaginary figures
2. List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies
3. List out legal provisions in respect of internal reconstruction.
4. Narrate the steps for preparation of consolidated balance sheet.
5. Calculate minority interest and goodwill with imaginary figures.
6. List out preferential creditors as per company's Act

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy, Sultan Chand

3.2 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT (10hrs)

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY (12hrs)

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION (12hrs)

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems

Unit 4: INVESTMENT & DIVIDEND DECISION (16hrs)

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT (6hrs)

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

1. Draw the organization chart of Finance Function of a company
2. Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
3. Capital structure analysis of companies in different industries
4. Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
5. G. Sudarshan Reddy, Financial Management, HPH
6. Roy – Financial Management, HPH
7. Khan and Jain, Financial Management, TMH
8. S. Bhat- Financial Management.
9. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
10. I M Pandey, Financial Management. Vikas Publication.
11. Prasanna Chandra, Financial Management, TMH
12. P.K Simha – Financial Management.
13. M. Gangadhar Rao & Others , Financial management
14. Dr. Alice Mani: Financial Management, SBH.

3.3 BUSINESS DATA ANALYTICS

OBJECTIVE

To make understand the uses of business data and also to give practical exposure on various software's in business to manage data.

Unit 1: INTRODUCTION TO MS EXCEL AND UNDERSTANDING BASIC WORKING WITH IT (12 hrs)

Introduction to MS Excel: MS Excel Options, Ribbon, Sheets and Difference between Excel 2007, 2010, Saving Excel File as PDF, CSV and Older versions Using Excel Shortcuts with Full List of Shortcuts Copy, Cut, Paste, Hide, Unhide, and Link the Data in Rows, Columns and Sheet Using Paste Special Options. Formatting Cells, Rows, Columns and Sheets protecting & non protecting Cells, Rows, Columns and Sheets with or without Password Page Layout and inter Properties, Inserting Pictures and other objects in Worksheets.

Unit 2: WORKING WITH FORMULAE/FUNCTIONS (18 hrs)

Lookup and Reference Functions: VLOOKUP, HLOOKUP, INDEX, ADDRESS, MATCH, OFFSET, TRANSPOSE etc

Logical Function: IF / ELSE, AND, OR, NOT, TRUE, NESTED IF/ELSE etc

Database Functions: DGET, DMAX, DMIN, DPRODUCT, DSTDEV, DSTDEVP, DSUM, DVAR, DVARP etc

Date and Time Functions: DATE, DATEVALUE, DAY, DAY360, SECOND, MINUTES, HOURS, NOW, TODAY, MONTH, YEAR, YEARFRAC, TIME, WEEKDAY, WORKDAY etc

Information Functions: CELL, ERROR.TYPE, INFO, ISBLANK, ISERR, ISERROR, ISEVEN, ISLOGICAL, ISNA, ISNONTEXT, ISNUMBER, ISREF, ISTEXT, TYPE etc.

Math and Trigonometry Functions: RAND, ROUND, CEILING, FLOOR, INT, LCM, MOD, EVEN, SUMIF, SUMIFS etc

Statistical Functions: AVEDEV, AVERAGE, AVERAGEA, AVERAGEIF, COUNT, COUNTA, COUNTBLANK, COUNTIF, FORECAST, MAX, MAXA, MIN, MINA, STDEVA etc

Text Functions: LEFT, RIGHT, TEXT, TRIM, MID, LOWER, UPPER, PROPER, REPLACE, REPT, FIND, SEARCH, SUBSTITUTE, TRIM, TRUNC, CONVERT, CONCATENATE, DOLLAR etc

Unit 3: CONDITIONAL FORMATTING (6 hrs)

Using Conditional Formatting, Using Conditional Formatting with Multiple Cell Rules, Using Color Scales and Icon Sets in Conditional Formatting, Creating New Rules and Managing, Existing Rules.

Unit 4: DATA SORTING AND FILTERING (8hrs)

Sorting Data AZ and ZA, Using Filters to Sort Data, Advance Filtering Options, Pivot Tables, Creating Pivot Tables, Using Pivot Table Options, Changing and Updating Data Range, Formatting Pivot Table and Making Dynamic Pivot Tables.

Unit 5: PIVOT CHARTS**(6 hrs)**

Creating Pivot Charts, Types of Pivot Charts and their usage, Formatting Pivot Charts and, Making Dynamic Pivot Charts

Unit 6: VBA MACRO**(6hrs)**

Introduction to VBA Macro, Recording Macro & Understanding Code Behind, Editing, Writing, VBA Code and Saving as Macro or Add-In, Adding Add-Ins-in Excel

SKILL DEVELOPMENT

1. Mention the key skills required for Data Analyst
2. Mention the various steps to be taken in an analytics project
3. List out some common problems faced by data analyst

BOOKS FOR REFERENCE

1. Marketing Analytics: Data-Driven Techniques with Microsoft Excel, Paperback –2014, by Wayne L. Winston (Author)
2. Excel 2010 Power Programming with VBA Paperback , 2010 by John Walkenbach (Author)
3. Excel VBA Programming for Dummies Paperback , 2010 by John Walkenbach (Author)

3.4 FINANCIAL REPORTING

OBJECTIVE

The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit 1: ACCOUNTING STANDARDS (8hrs)

Accounting Standards and Guidance Notes on various accounting aspects issued by the ICAI and their applications. Introduction of Indian Accounting Standards (IAS); Comparative study of ASs vis-a-vis IASs; Carve outs/ins in IASs vis-à-vis International Financial Reporting Standards (IFRSs)

Unit 2: CONSOLIDATED FINANCIAL STATEMENTS (16hrs)

Consolidated Financial Statements of Group Companies Concept of a Group, purposes of consolidated financial statements, minority interest, Goodwill, Consolidation procedures – Minority interests, Goodwill, Treatment of pre- acquisition and post acquisition profit, Consolidation with two or more subsidiaries, consolidation with foreign subsidiaries, consolidated profit and loss account, balance sheet and cash flow statement, Treatment of investment in associates in consolidated financial statements, Treatment of investments in joint ventures in consolidated financial statements

Unit 3: ACCOUNTING AND REPORTING OF FINANCIAL INSTRUMENTS (8hrs)

Meaning, recognition, de-recognition and offset, compound financial instruments, measurement of financial instruments, Hedge accounting disclosures

Unit 4: SHARE BASED PAYMENTS (8hrs)

Share based payments - Meaning, Equity settled transactions, Transaction with employees and non- employees Determination of fair value of equity instruments vesting conditions 3 Modification, cancellation and settlement Disclosures

Unit 5: FINANCIAL REPORTING (16hrs)

Corporate Financial Reporting - Issues and problems with special reference to published financial statements.

Financial Reporting by Mutual funds, Non-banking finance companies, Merchant bankers, Stock and commodity market intermediaries,

Developments in Financial Reporting (a) Value Added Statement (b) Economic Value Added, Market Value Added, Shareholders' Value Added (c) Human Resource Reporting

SKILL DEVELOPMENT

1. Conversion of final accounts to IFRS
2. Analysis of published financial statements for at-least 2 types of stakeholders
3. Preparation of Consolidated Financial Statement of any two existing companies.

JOURNALS FOR REFERENCE

1. Journal of management accounting
2. Journal of accounting & finance
3. Chartered Secretary
4. Chartered Accountant
5. Chartered Analyst

3.5 HUMAN RESOURCE MANAGEMENT

OBJECTIVE

The objective is to familiarize the students with concepts and principles of Human Resource Management.

Unit 1: HUMAN RESOURCE MANAGEMENT (10hrs)

Introduction – Meaning of HRM – Objectives of HRM – Importance of HRM – Functions and Process of HRM – HR Manager - Duties and Responsibilities – Recent trends in HRM.

Unit 2: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION (14hrs)

Meaning – Importance of Human Resource Planning – Benefits of Human Resource Planning, Recruitment – Meaning – Methods of Recruitment, Selection – Meaning – Steps in Selection Process – Problems Involved in Placement.

Unit 3: INDUCTION AND TRAINING (8hrs)

Meaning, objective and purpose of Induction: Training- Need for training, benefits of training, identification of training needs and methods of training.

Unit 4: PERFORMANCE APPRAISAL AND COMPENSATION (10hrs)

Introduction – Meaning and Definition – Objectives – Methods of Performance Appraisal – Uses and Limitations of Performance Appraisal. Compensation – Meaning of Compensation – Objectives of Compensation

Unit 5: PROMOTION AND TRANSFERS (6hrs)

Meaning and Definition of Promotion - Purpose of promotion, basis of promotion, meaning of transfer, reasons for transfer, types of transfer, right sizing of work force, need for right sizing.

Unit 6: HUMAN RESOURCE DEVELOPMENT (8hrs)

Meaning of HRD, Role of training in HRD, Knowledge Management, Knowledge Resources, Impact of Globalization on Human Resource Management, Problems in relation to Transnational and Multinationals

SKILL DEVELOPMENT

1. Prepare a Chart showing the functions of HRM and a brief explanation on the need for each function.
2. Prepare an advertisement for recruitment / selection of candidates for any organization of your choice.
3. Give observation report of industrial safety practices followed by any organization of your choice
4. Develop a format for performance appraisal of an employee.
5. Choose any MNC and present your observations on training program.

BOOKS FOR REFERENCE:

1. Aswathappa, Human Resource Management, Tat McGraw Hill.
2. Madhurimalall, Human Resource Management, HPH.
3. Reddy & Appanniah, Human Resource Management. HPH.
4. C.B.Mamoria, Personnel management, HPH.
6. Edwin Flippo, Personnel management, McGraw Hill.
7. SubbaRao, Personnel and Human Resources management, HPH.
8. S.Sadri & Others: Geometry of HR, HPH.
9. Rajkumar : Human Resource Management I.K. Intl
10. Michael Porter, HRM and human Relations, Juta & Co.Ltd.
11. Biswanath Ghosh, Human Resource Development and Management.
12. Rekha & Vibha – Human Resource Management, VBH.
13. K. Venkataramana, Human Resource Management, SHBP.
14. Dr. Alice Mani: Human Resource Management, SBH.

3.6 PRODUCTION AND OPERATIONS MANAGEMENT

OBJECTIVE

The objective of the subject is to make the students understand the concepts of production and operations management of an industrial undertaking and the benefits of automation.

Unit 1: INTRODUCTION TO PRODUCTION & OPERATIONS MANAGEMENT

(12hrs)

Introduction - Meaning & Definition – Classification - Objectives and Scope of Production and operation Management -Automation: Introduction – Meaning and Definition – Need – Types - Advantages and Disadvantages.

Unit 2: PLANT LOCATION AND LAYOUT

(8hrs)

Introduction – Meaning & Definition - Factors affecting location, theory and practices, cost factor in location - Plant layout principles -space requirement- Different types of facilities, Organization of physical facilities – building, sanitation, lighting, air conditioning and safety.

Unit 3: MATERIALS MANAGEMENT

(8hrs)

Introduction – Meaning & Definition - Purchasing, Selection of Suppliers, Inventory Management, Material Handling Principles and Practices, Economic Consideration, Criteria for Selection of Materials Handling Equipment, Standardization, Codification, Simplification, Inventory Control, Techniques of

Unit 4: PRODUCTION PLANNING AND QUALITY CONTROL

(16hrs)

Objectives and Concepts, capacity planning, corresponding production planning, controlling, scheduling routing – Quality Control - Statistical Quality Control, Quality Management, Control charts and operating characteristic curves, acceptance sampling procedures, Quality Circle, Meaning of ISO and TQM. Productivity – factors influencing productivity - Concept of Standard Time, Method study, Time and Motion Study, Charts and Diagrams, Work Measurements

Unit 5: MAINTENANCE AND WASTE MANAGEMENT

(12hrs)

Introduction – Meaning – Objectives - Types of maintenance, Break down, spares planning and control, preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern scientific maintenance methods - Waste Management - Scrap and surplus disposal, salvage and recovery.

SKILL DEVELOPMENT

1. Visit any industry and list out the stages of PPC with as many details as possible.
2. List out the Functions of Materials management in an organization
3. Describe the Functions of Quality Circles in an industry
4. Draw a ISO specification chart
5. Visit a company and List out Environmental issues.
6. Visit a company and draw a chart on Plant layout.

BOOKS FOR REFERENCE

1. Ashwathappa. K & Sridhar Bhatt : Production & Operations Management, HPH.
2. Gondhalekar & Salunkhe : Productivity Techniques, HPH.
3. SN Chary, Production & Operations Management, McGraw Hill.
4. U. Kachru, Production & Operations Management, Excel Books.
5. Alan Muhlemann, John Oaclank and Keith Lockyn, Production & Operations Management, PHI.
6. K KAhuja, Production Management, CBS Publishers.
7. S.A. Chunawalla & Patel: Production & Operations Management, HPH.
8. Everett E Adam Jr., and Ronald J Ebert, Production & Operations Management, Sage Publishing
9. Dr. L. N. Agarwal and Dr. K.C. Jain, Production Management
10. Thomas E. Morton, Production Operations Management, South Western College.
11. K. Venkataramana, Production Operations Management, SHBP.

3.7 COST ACCOUNTING-2

OBJECTIVE

Use of costing data for decision making and cost control, emerging modern cost management concepts

Unit 1: JOB AND CONTRACT COSTING (12hrs)

Features, objectives, advantages and disadvantages of job & contract costing, Comparison between job and contract costing – problems

Unit 2: PROCESS COSTING (14hrs)

Features of process costing, application, comparison between job costing and process costing, advantages and disadvantages, process loss – normal loss – abnormal loss, abnormal gain – joint and by-products – problems (excluding inter-process profits and equivalent production)

Unit 3: OPERATING COSTING (12hrs)

Introduction, Meaning, Types & methods, Transport Costing: Meaning, classification of costs, collection of costs, ascertainment of absolute passenger kilometers, ton kilometers – problems.

Unit 4: ACTIVITY BASED COSTING (10hrs)

Meaning, differences between traditional costing methods and activity based costing. Characteristics of ABC, Cost drives & cost pools. Product costing using ABC system: uses – limitations – steps in implementation of ABC – simple problems.

Unit 5: TARGET COSTING (8hrs)

Target Costing: Meaning, nature, methodology, methods of establishment of cost, Just in Time (JIT): features, implementation, and benefits. (Theory only)

SKILL DEVELOPMENT

1. Listing of industries located in your area and methods of costing adopted by them
2. List out materials used in any two organizations.
3. Preparation of Imaginary composite job cost statement
4. Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – Cost Management
11. Charles T Horngren, George Foster, Srikant M. Data – Cost Accounting: A Managerial Emphasis
12. Anthony R. N. – Management Accounting Principles
13. S. Mukherjee & A. P. Roychowdhury – Advanced Cost and Management Accountancy
14. J. Made Gowda- Cost Accounting
15. Rathnam - Cost Accounting

SEMESTER IV

4.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP (10hrs)

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Differences between Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur – Role of Entrepreneur for Economic Development - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Differences between Manager and Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneurs. Entrepreneurship Development- Need – Problems – National and State Level Institutions

Unit 2: SMALL SCALE INDUSTRIES (12hrs)

Small Scale Industries - Tiny Industries - Ancillary Industries - Cottage Industries – Definition – Meaning - Product Range - Capital Investment - Ownership Patterns - Importance and Role played by SSI in the development of the Indian Economy - Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's

Unit 3: STARTING A SMALL INDUSTRY (14hrs)

Concept of Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture – Location, Clearances and Permits required, Formalities, Licensing and Registration Procedures - Assessment of the market for the proposed project - Importance of financial, technical and social feasibility of the project.

Unit 4: PREPARING THE BUSINESS PLAN (BP) (10hrs)

Business Plan, Importance of BP, Preparation of BP, Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

Unit 5: IMPLEMENTATION OF THE PROJECT AND SICKNESS IN SSIs (10hrs)

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non-financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates – Role and Types. Sickness: Meaning and definition of a sick industry - Causes of Industrial Sickness - Preventive and Remedial Measures for Sick Industries

SKILL DEVELOPMENT

1. Preparation of a Project report to start a SSI Unit.
2. Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
3. Format of a business plan.
4. A Report on the survey of SSI units in the region where college is located.
5. Chart showing financial assistance available to SSI along with rates of interest.
6. Chart showing tax concessions to SSI both direct and indirect.
7. Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasant Desai: The Dynamics of Entrepreneurship Development and Management, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Satish Taneja: Entrepreneur Development, HPH.
4. UdaiPareek and T.V. Rao, Developing Entrepreneurship
5. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems, SIET, Hyderabad
6. Srivastava, A Practical Guide to Industrial Entrepreneurs, Sultan Chand.
7. Government of India, Report of the committee on small and medium entrepreneurs, 1975
8. VidyaHattangadi ; Entrepreneurship, HPH.
9. N.V.R. Naidu : Management and Entrepreneurship, I.K. International
10. Bharusali, Entrepreneur Development,
11. K. Venkataramanappa, Entrepreneurial Development, SHB Publications
12. Anil Kumar : Small Business and Entrepreneurship, I.K. International
13. Rekha & Vibha – Entrepreneurial Management, VBH.

4.2 INTERNATIONAL BUSINESS

OBJECTIVE

The objective of this subject is to facilitate the students in understanding International Business in a multi cultural world.

Unit 1: INTRODUCTION TO INTERNATIONAL BUSINESS (10hrs)

Meaning and Definition of International Business – Theories of International Trade – Economic Theories – Forms of International Business - Nature of International Business

Unit 2: MODES OF ENTRY INTO INTERNATIONAL BUSINESS (12hrs)

Mode of Entry – Exporting – Licensing – Franchising – Contract Manufacturing – Turn Key Projects – Foreign Direct Investment – Mergers, Acquisitions and Joint Ventures – Comparison of different modes of Entry.

Unit 3: GLOBALIZATION (16hrs)

Globalization: Meaning - Features – Stages –Production –Investment and Technology, Globalization – Advantages and Disadvantages – Methods and Essential Conditions for Globalization. MNC's and International Business: Definitions – Distinction between Indian Companies – MNC – Global Companies and TNC – Organizational Transformations – Merits and Demerits of MNC's in India

Unit 4: INTERNATIONAL MARKETING INTELLIGENCE (8hrs)

Information required – Source of Information – International Marketing Information System and Marketing Research.

Unit 5: EXIM TRADE (10hrs)

Export Trade, Procedure, Steps & Documentation, Direction of India's Trade – Export Financing – Documents related to Export Trade – Export Marketing – Import Trade, Procedure, Steps, Documentations and Problems - EXIM Policy - Balance of Payment – Disequilibrium and Measures for Rectification - Institutions connected with EXIM Trade.

SKILL DEVELOPMENT

1. List any three MNC's operating in India along with their products or services offered.
2. Prepare a chart showing currencies of different countries
3. Tabulate the foreign exchange rate of at least 2 countries for 1 month
4. Collect and Paste any 2 documents used in Import and Export trade.

BOOKS FOR REFERENCE

1. Dr. Aswathappa International Business, Tata McGraw Hill
2. P. SubbaRao – International Business – HPH
3. Shyam Shukla; International Business, Excel Books
4. Francis Cherunilam; International Business, Prentice Hall of India
5. MahuaDutta, International Business, I.K. Intl
6. J. Maskeri- International Business
7. Rosy Joshi; International Business, Kalyani Publishers.
8. Venkataramana. K, International Business, SHBP.
9. Subhasre S – International Business, HPH.

4.3 INCOME TAX

OBJECTIVE

The objective of this subject is to expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.

Unit 1: INTRODUCTION TO INCOME TAX (8hrs)

Income Tax: Brief History - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment – Assessment Year – Previous Year – Exceptions to the general rule of Previous Year - Assessee – Person – Income - Casual Income – Gross Total Income – Total Income – Agricultural Income Residential Status: Determination of Residential Status of an individual (simple problems) - Incidence of Tax (Simple Problems on Computation of Gross Total Income). Exempted Incomes: Introduction – Exempted Incomes U/S 10 (Restricted to Individual Assessee) – Only theory

Unit 2: INCOME FROM SALARY (20hrs)

Meaning & Definition – Basis of Charge – Allowances – Fully Taxable Allowances – Partly Taxable Allowances: House Rent Allowance, Entertainment Allowance, Transport Allowance, Children Education & Hostel Allowances - Fully Exempted Allowances – Perquisites – Tax Free Perquisites – Perquisites Taxable in all Cases: Rent free accommodation - Concessional accommodation, Personal obligations of the employee met by the employer – Perquisites Taxable in Specified Cases : Gardener, Sweeper, Gas, Electricity, Water and Motor car facility (when the motor car is owned or hired by the employer) – Provident Funds – Deductions from Salary U/S 16 – Problems on Income from Salary(excluding retirement benefits).

Unit 3: INCOME FROM HOUSE PROPERTY (12hrs)

Basis of Charge – Exempted Incomes from House Property – Annual Value – Determination of Annual Value – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property(Excluding Pre-Construction interest)

Unit 4: PROFITS AND GAINS FROM BUSINESS AND PROFESSION (10hrs)

Meaning and Definition of Business & Profession – Expenses & losses Expressly Allowed – Expenses and losses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on computation of income from Business of Sole Proprietor.

Unit 5: COMPUTATATION OF TOTAL INCOME (6hrs)

Income from Capital Gains (excluding exemptions - Theory only) - Income from Other Sources (Theory only) - Deductions U/S 80 C, D & G. Simple problems on Computation of Total income of an Individual.

SKILL DEVELOPMENT

1. Form No. 49A (PAN) and 49B
2. List of enclosures to be made along with IT returns (with reference to salary & H.P).
3. Preparation of Form 16
4. Computation of Income Tax
5. Table of rates of Tax deducted at source
6. Filing of IT returns of individuals.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax, Kalyani Publisher s
6. 7 Lecturer – Income Tax – VBH
7. Dr. V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publication.

4.4 MARKETING MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the concept of marketing and its applications and the recent trends in Marketing.

Unit 1: INTRODUCTION TO MARKETING (10hrs)

Meaning & Definition – Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing, Recent trends in Marketing - Introduction, E-business – Tele-marketing – M-Business – Green Marketing – Relationship Marketing – Retailing – Concept Marketing and Virtual Marketing (Meaning Only).

Unit 2: MARKETING ENVIRONMENT (MACRO) (10hrs)

Meaning – Demographic – Economic – Natural – Technological - Political – Legal – Socio - Cultural Environment

Unit 3: MARKETING MIX (20hrs)

Meaning – Elements – Product – Product Mix – Product Line – Product Lifecycle – Product Planning – New Product Development – Failure of New Product – Branding – Packing and Packaging, Pricing – Objectives – Factors influencing Pricing Policy and Methods of Pricing. Physical Distribution – Meaning – Factors affecting Channel Selection – Types of Marketing Channels. Promotion – Meaning and Significance of Promotion – Personal Selling & Advertising (Meaning Only)

Unit 4: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR (10hrs)

Meaning & Definition - Bases of Market Segmentation – Requisites of Sound Market Segmentation, Consumer Behavior – Factors influencing Consumer Behavior and Buying Decision Process.

Unit 5: CUSTOMER RELATIONSHIP MANAGEMENT (6hrs)

Meaning and Definition – Role of CRM – Advantages and Disadvantages

SKILL DEVELOPMENT

1. Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
2. Suggest strategies for development of a product
3. Study of Consumer Behavior for a product of your choice
4. Develop an Advertisement copy for a product
5. Prepare a chart for distribution network for different products

BOOKS FOR REFERENCE

1. P N Reddy & Appanniah, Marketing Management, HPH.
2. Kuranakaran, Marketing Management, Himalaya Publishers.
3. Rekha & Vibha, Marketing Management, VBH.
4. Philip Kotler, Marketing Management, Prentice Hall. 34
5. Bose Biplab, Marketing Management, Himalaya Publishers.
6. J.C. Gandhi, Marketing Management, Tata McGraw Hill.
7. Ramesh & Jayanti Prasad: Marketing Management, I.K. International
8. William J. Stanton, Michael J.Etzel, Bruce JWalker, Fundamentals of Marketing, McGraw Hill Education.
9. Sontakki, Marketing Management, Kalyani Publishers.
10. K. Venkataramana, Marketing Management, SHBP.
11. Dr. Alice Mani: Marketing Management, SBH.

4.5 E- BUSINESS

OBJECTIVE

The objective is to expose the students to electronic modes of commercial operations.

Unit 1: HISTORY AND GROWTH OF E-COMMERCE (10hrs)

History and growth of E-Commerce worldwide and in India, Emergence and growth of Internet and WWW, Advantages and disadvantages of E-Commerce, Transition to E-Commerce in India, Opportunities for industries, Challenges for the Indian Corporate.. Internal resisting factors and external driving forces, Information Technology Act 2000 – highlights and concepts of the Act - Business Models for E-Commerce – B2C, B2B, C2C, C2B, Brokerage, Aggregator, Infomediary, Community, Value Chain, Manufacture, Advertising, Subscription and Affiliate Models

Unit 2: INTERNET CLIENT (10hrs)

Internet Client - Server Applications, Telnet, FTP, Chat, ICQ, IRC, Identifying data types with MIME, Network and Internet, Communication, Switching, Transmission, Routers, IP suite, URL's , TCP, Search engines, ISP in India, Policy of Government , Broadband, Hypertext, JavaScript, XML

Unit 3: E- MARKETING (10hrs)

E- Marketing Identifying and achieving marketing goals, e-marketing value chain, maintaining a website, browsing behavior model, online marketing, e-advertising, e-branding. E-CRM solutions, interactive websites, managing customers and lifecycles, data mining and privacy issues, E-Logistics, supply chain management, reducing inventory

Unit 4: E – PAYMENTS (10hrs)

E - payment requirements, digital token based e-payment systems, credit cards and mobile payments, smart card cash payments, properties and uses of e-cash, cheque payments, risks and protection in e-payments, digital signature – usage and legal position, E-banking and Online stock trading

Unit 5: GROWTH AND APPLICATIONS OF MOBILE (8hrs)

Mobile Growth and applications of M , WAP, WDP, SMS, GPRS, Different generations of wireless communication – 1G, 2G, 3G, GSM Vs CDMA, M in India

Unit 6: SECURITY ON THE INTERNET (8hrs)

Security on the internet, site hacking, e-mail security, concept of firewall and its benefits, cyber stalking, risk of privacy, cookies, phishing and threats to children.

SKILL DEVELOPMENT

- Visit Few Business Websites and note down in Practical Record Book

BOOKS FOR REFERENCE

1. Kalakota Ravi and A.B.Whitson : Frontiers of Electronic , Addison Wesley
2. P T Joseph SJ, E- – An Indian Perspective
3. Watson R T : Electronic – the strategic perspective, The Dryden Press
4. CSV Murthy – E-Commerce – Concepts, Models, Strategies
5. Agarwala K.N. and Deeskha Agarwala: Business on the net – Bridge to the online store front, Macmillan, New Delhi.
6. Diwan, Prag and Sunil Sharma, Electronic – A manager guide to E-business,
7. Vanity Boos International, Delhi.
8. Janal D.S : Online Marketing Handbook , Van Nostrand Reinhold Network
9. Koisur David : Understanding Electronic , Microsoft Press, Washington
10. Minoli and Minol, Web technology HandBook, TMH, New Delhi.
11. Murthy CVS, E- – Himalaya Publishing House
12. Cyber Laws : C K Punia - Sumit Enterprises
13. Cyber law: the law of the Internet By Jonathan Rosenoer

4.6 BUSINESS INFORMATION SYSTEMS

OBJECTIVE

To appreciate the role and importance of Information Systems in an Organization and at the various levels of decision making

To understand the elements, functional relationships between the hardware, software and other elements comprising the information system

Unit -1: INTRODUCTION TO INFORMATION SYSTEMS (10hrs)

Introduction to Organization – Decision levels – Managerial roles – Information needs of Management. Information System – Definition – Features – System concepts – Framework for Information Systems- Strategic uses of Management Information Systems – Future of IS in an Organization Business Process Reengineering.

Unit 2: INFORMATION SYSTEM COMPONENTS (14hrs)

Hardware – Input and Output devices – Computer Memory (Primary, Secondary & Cache) – Memory Access Time – File Structures – Network Components. Software – Operating System software – Application software – Groupware – Multiprogramming –Multi tasking. Database – Definition -Data Capture – Data Integrity – Components of Database Management Systems

Unit 3: INTEGRATION OF INFORMATION SYSTEMS (16hrs)

Distributed Processing – Centralized Data Processing – Decentralized Data Processing – Distributed, Databases – Client Server Computing – Internet – Intranet – Electronic Conferencing

Transaction Processing Systems –Office Automation Systems – Knowledge Management Systems –Decision Support Systems (Features, Components & Tools) – Group Decision Support Systems –Expert systems (Components & Advantages) – Case Studies.

Unit 4: APPLICATION OF INFORMATION SYSTEMS IN BUSINESS AREAS (8hrs)

Application of Information Systems at the Operational, Tactical & Strategic Levels in the areas of Accounting & Finance, Marketing, Human Resources and Production

Unit 5: MANAGEMENT OF INFORMATION SYSTEMS (8hrs)

Information Systems Security – Risks – Threats – Protection of Information Systems, Roles & Responsibilities of IS Professionals – Ethical issues

SKILL DEVELOPMENT

1. List and briefly describe the information systems that support knowledge management and the kind of information technology infrastructure it requires.
2. Discuss the various components and framework for understanding MIS.

BOOKS FOR REFERENCE

1. Management Information Systems – The Manager's View, Robert Schulthesis, Mary Summer. TataMc Graw Hill Publications
2. Management Information Systems – Gerald V Post David, L Anderson, Tata McGraw Hill.
3. Management Information Systems – Jaiswal S
4. Management Information Systems – O Brien, Tata Mc Graw Hill.
5. IT The Breaking Wave –Denis P Curtin.
6. MIS, - Managing the digital firm – Landon & Gendom, Pearson Prentice Hall,
7. O Brien, Introduction to IS, TMH.
8. Management Information System – Jaiswal & Mittal , Oxford University Press

4.7 STOCK AND COMMODITY MARKETS

OBJECTIVE

To provide students with a conceptual framework of stock markets and commodity markets, functionalities in these markets and their mode of trading.

Unit 1: AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS (10hrs)

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism, Meaning of commodities and Commodities market, differences between stock market and commodities market

Unit 2: STOCK MARKET (12hrs)

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: meaning, types (in brief).

Unit3: TRADING IN STOCK MARKET (14hrs)

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd. (NSDL), Central Securities Depository Ltd. (CSDL) (in brief)

Unit 4: COMMODITIES MARKET (12hrs)

History, Membership, objectives, functions of commodities exchange, Organization and role of a commodity exchange, Governing Body, Types of Transactions to be dealt in commodity Market –physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit 5: TRADING IN COMMODITY MARKETS (8hrs)

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of Commodity

SKILL DEVELOPMENT

1. Prepare the list of recognized stock exchanges in India
2. Prepare the process chart of online trading of shares and debentures.
3. Prepare the chart showing Governing Body of the Commodities Market.
4. Prepare the list of commodities traded on commodity market.
5. Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. B. Kulkarni – Commodity Markets & Derivatives.
4. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
5. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
6. Srivastava R.M ; Management of Indian Financial Institutions
7. Pallavi Modi : Equity – The Next Investment Destination

Semester V

5.1 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

Unit 1: MANAGEMENT ACCOUNTING AND ANALYSIS OF FINANCIAL STATEMENTS (12hrs)

MANAGEMENT ACCOUNTING: Meaning – Definition – Objectives – Nature and Scope – Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

ANALYSIS OF FINANCIAL STATEMENTS: Types of Analysis – Methods of Financial Analysis – Comparative Statements – Common Size Statements – Trend Analysis – Problems.

Unit 2: RATIO ANALYSIS (14hrs)

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Problems on Ratio Analysis - Preparation of financial statements with the help of Accounting Ratios.

Unit 3: FUND FLOW ANALYSIS (10hrs)

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Procedure of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operation – Statement of Sources and Application of Funds – Problems.

Unit 4: CASH FLOW ANALYSIS (14hrs)

Meaning and Definition of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS-3 – Procedure of Cash Flow Statement – Concept of Cash and Cash Equivalents - Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to AS-3 (Indirect Method Only).

Unit 5: MANAGEMENT REPORTING (6hrs)

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

1. Collection of financial statements of any one organization for two years and preparing comparative statements
2. Collection of financial statements of any two organization for two years and prepare a common Size Statements
3. Collect statements of an Organization and Calculate Important Accounting Ratio's
4. Draft a report on any crisis in an organization

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

5.2: LOGISTICS & SUPPLY CHAIN MANAGEMENT

OBJECTIVES

1. To give an insight to the student about the principles and practices in logistics and supply chain
2. To enable them understand the management of the services of an organization

Unit 1: INTRODUCTION (8hrs)

International logistics and Supply Chain Management: meaning and objectives, importance in global economy, Characteristics of global supply chains; Supply Chain relationship to business performance – Key tasks of logistics and supply chain managers, Role of Government in controlling international trade and its impact on Logistics and supply chain. **Supply chain strategy:** Supply Chain as a competitive advantage, Global Supply Chain Strategy; Structuring supply chain capabilities; Business matching supply chain design with business strategy.

Unit 2: TRANSPORTATION (6hrs)

Strategic importance of transport in global logistics, logistical objectives of transport, International Ocean Transportation, International Air Transportation, and International Land Transportation: types, characteristics and salient features, intermodal transportation in international operations, factors influencing mode and carrier selection decision

Unit 3: OUTSOURCING AND LOGISTICS SERVICE PROVIDERS (10hrs)

Intermediaries and Alliances in global logistics; Meaning of 3 PL and 4 PL service providers, role in Global logistics, types of services, considerations for hiring 3 PL and 4 PL service providers. Concept and need of outsourcing, determinants for outsourcing decisions, role of outsourcing in global supply chain management; **Customer service :**The marketing and logistics interface, customer service and customer retention, Service driven logistics systems, customer service priorities and standards, customer service strategy.

Unit 4: PLANNING GLOBAL SUPPLY CHAIN (16hrs)

Planning the global supply chain; Network design for global supply chain management, Risk management in the global context, Measuring logistics cost and performance, Benchmarking the supply chain, Performance measurement and evaluation in global supply chains

Network design : Decisions in Network design-strategic importance; location of plant, warehouse facilities, capacity and number of warehouses; Factors influencing network design decisions; **Inventory flow and modeling :** Approaches to Inventory Management in Global Supply chain Management;; Distribution Resource Planning; Symptoms of poor Inventory Management; Modeling in Supply Chain: Inventory models, safety stock determination for service level; and lead time; forecasting models, routing problem.

Unit 5: COORDINATION IN SUPPLY (16hrs)

Importance of Co-ordination in Supply Chain, Bullwhip effect, effect of lack of Coordination on performance; Obstacles to Coordination, Strategies to achieve coordination, Building strategic Partnership and Trust in Supply chain; **Information technology in supply chain:** Role and Importance of IT in Supply Chain Management, IT Solutions for supply chain management; Supply chain Information Technology in Practice.

Performance measurement and trends: Dimensions of Performance Metrics; Approaches/tools for Performance Measurement, Measuring logistics cost and performance. Benchmarking the supply chain, Performance measurement and evaluation in global supply chains, Impediments to improve performance, Trends in International supply chain management.

SKILL DEVELOPMENT

1. Discuss why high-tech industry has been the leader in adopting supply chain IT systems.
2. Explain the new challenges faced by supply chain managers in the changing business landscape
3. Collect and record how companies are using Internet technology for supply chain management

BOOKS FOR REFERENCE

1. Supply chain management in the retail industry – Michael Hugos and Chris Thomas, Wiley Publishers, 2005.
2. Supply Chain Management “Strategy, Planning and Operations – Sunil Chopra and Peter Meindl, Prentice Hall, 2004.
3. Logistics and Supply Chain Management – Raghuram & Rangaraj, Macmillan India
4. Essentials of Supply Chain Management – Michael Hugos

5.3 AUDITING

OBJECTIVE

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING (12hrs)

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, RECENT TRENDS IN AUDITING: Nature & Significance of Tax Audit – Cost Audit - Management audit.

Unit 2: INTERNAL CONTROL (10hrs)

Internal Control: meaning and objectives. Internal Check: meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING (12hrs)

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES (12hrs)

Meaning and Objectives of verification and valuation – Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS (10hrs)

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor, Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies

SKILL DEVELOPMENT

1. Collect the information about types of audit conducted in any one Organization
2. Visit an audit firm, write about the procedure followed by them in auditing the books of accounts of a firm
3. Draft an investigation report on behalf of a Public Limited Company
4. Record the verification procedure with respect to any one fixed asset
5. Draft an audit program

BOOKS FOR REFERENCE

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

Semester VI

6.1 BUSINESS REGULATIONS

OBJECTIVE

To introduce the students to various topics in law important to business people and to familiarize the students with common problems.

Unit 1: INTRODUCTION TO BUSINESS LAWS (6hrs)

Introduction, nature of law, meaning and definition of business laws, scope and sources of business laws

Unit 2: CONTRACT LAWS (18hrs)

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

Unit 3: INFORMATION TECHNOLOGY ACT (6hrs)

Introduction to Cyber Law in India, salient features of IT Act, 2000, importance of Cyber Law, Digital Signature and cyber crimes.

Unit 4: COMPETITION AND CONSUMER LAWS (14hrs)

The Competition Act, 2002: Objectives of Competition Act, the features of Competition Act, **CAT**, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission

Unit 5: ECONOMIC AND ENVIRONMENTAL LAWS (12hrs)

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent, FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

1. Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance
2. Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
3. Draft an application to the Chief Information Officer of any government office seeking information about government spending.
4. Draft digital signature certificate
5. Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
6. Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
7. Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 QUANTITATIVE TECHNIQUES

OBJECTIVE

To impart knowledge in concepts and tools of OR and to teach students to apply these in managerial decision making.

Unit 1: INTRODUCTION TO OR

(10hrs)

Definitions, Features, Scope and applications of OR. Models of OR Linear programming, Problem Formulation, Graphical Method and Simplex Method of Solution, Product Mix Problems, other Managerial Applications

Unit 2: TRANSPORTATION

(8hrs)

Introduction, Mathematical Formulas, Optimal Solution, North West Corner Rule, Matrix Minima Method, Vogels Approximation method, Test for optimization and transportation by MODI method

Unit 3: NETWORK ANALYSIS

(12hrs)

Network analysis, PERT, CPM- drawing the network activity times, event times, critical path, total and free slack- cost and time trade off and crashing, Inventory models, EOQ model, sensitivity analysis, model with one, price break inventory control systems in practice.

Unit 4: DECISION MAKING UNDER UNCERTAINTY

(10hrs)

Decision making under uncertainty, different decision criteria, decision trees, Simulation, model building, the process, problems with special reference inventory and financial management

Unit 5: GAME THEORY

(16hrs)

Game Theory, Games of pure strategy. Games of mixed strategy, Dominance, Queuing Theory: Elements of a queuing system. Models with Poisson arrival and services rates, single server and infinite and finite population

Sequencing: n-jobs to be processed on two machines in the same order of machines, N-jobs to be processed on m machines in the same order of machines – by converting it into a two – n machine case. Two jobs to be processed on m machines in the different orders of machines, Depreciation model

SKILL DEVELOPMENT

- Describe with an example, how will you compute EOQ with price breaks

BOOKS FOR REFERENCE

1. Srivastava V.K et al – Quantitative techniques for managerial Decision Making, Wiley Eastern Ltd
2. Richard, I. Levin and Charles A.Kirkpatrick – Quantitative Approaches to Management, Mcgraw Hill, Kogakusha Ltd
3. Budnik, Frank S Dennis Mcleaavey, Richard Mojena- Principles of Operation Research- AIT BS New Delhi.
4. Sharma J K – Operation Research- theory and applications McMillan, New Delhi
5. Kalavaathy S. – Operation Research- Vikas Pub Co
6. Gould F J – Introduction to Management Science- Englewood Cliffs N J Prentice Hall.
7. Naray J K , Operation Research, theory and applications- McMillan, New Delhi.
8. Taha Handy, Operations Research, Prentice Hall of India

6.3 ADVANCED MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this paper is to familiarize the student with the Tools and skills of decision making in management accounting.

Unit 1: INTRODUCTION

(8hrs)

Introduction: Limitation of Financial Accounting, Employment of Management Accounting, Definition and scope Role of Market Accountant Controller functions Managerial services Management Information System.

Unit 2: BUSINESS BUDGETS

(10hrs)

Business Budgets Budgetary Control Capital Budgets: Objectives. Advantages, limitations and essentials of Budgets and Budgetary control Organization of budgetary control Classification of budgets flexible budgets Fundamentals of capital budgeting Preparation of capital budget.

Unit 3: WORKING CAPITAL

(10hrs)

Working Capital: Importance of working capital estimation Surplus character of investment Fund flow statement Concept funds Concept of flows Preparation of funds flow statement uses and limitation. Cash flow statement Concept of cash and notional construction of cash flow statement.

Unit 4: MARGINAL COSTING

(14hrs)

Marginal Costing and Break Even Analysis: Concept of marginal costing Variable and absorption costing Benefits and limitations of cost, volume and profit analysis, break even point Margin of safely Make or buy decision.

Unit 5: STANDARD COSTING

(14hrs)

Standard Costing and Variance Analysis: Standard costing and historical costing Establishment of cost standards Steps involved in standard costing Variance analysis Material variance Material price variance Material usage variance material mix variance Labor variance idle time variance over head variance.

SKILL DEVELOPMENT

1. Preparation of Income Statement using Marginal Costing Technique
2. Illustrate make or buying decisions helps in decision making.
3. Preparation of Sales Budget with Imaginary Figures
4. List any 10 industries where Standard Costing is used

BOOKS FOR REFERENCE

1. Advanced Management Accounting- J Madegowda
2. Introduction to Management Accounting Charles T. Horn Gaxy L. Sundem
3. Tools and Technique Management Account N. Vinayakam
4. Management Accounting S.P. Gupta
5. Management Accounting Manmohan and Goyal
6. Management Accounting V. Krishna Kumar
7. Practical Problem in Management Accounting: Dr. Kulsreshtha and Gupta
8. Advanced Cost and Management Accounting S.P Jain and K.L. Narang

ELECTIVES

ACCOUNTING & TAXATION GROUP

Advanced Accounting
Accounting Standards
Business Taxation
Corporate Tax Planning
Indirect Tax

ADVANCED ACCOUNTING

OBJECTIVES

To acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations

Unit 1: ACCOUNTS OF BANKING COMPANIES (12hrs)

Business of banking companies – some important provisions of banking regulation act of 1949 – minimum capital and reserves – restriction on commission – brokerage – discounts – statutory reserves – cash reserves – books of accounts – special features of bank accounting, final accounts - balance sheet and profit and loss account – interest on doubtful debts – rebate on bill discounted – acceptance – endorsement and other obligations – problems as per new provisions.

Unit 2: ACCOUNTS OF INSURANCE COMPANIES (12hrs)

Meaning of life insurance and general insurance – accounting concepts relating to insurance companies - Preparation of Final accounts of insurance companies – revenue account and balance sheet

Unit 3: INFLATION ACCOUNTING (8hrs)

Need – meaning – definition – importance and need – role – objectives – merits and demerits – problems on current purchasing power method (CPP) and current cost accounting method (CCA).

Unit 4: BRANCH ACCOUNTS (8hrs)

Branch Accounts: Independent Branches- Accounting at Head Office-Accounting at Branch-Some Special Transactions. Foreign Branches- Rules of converting Trial Balance of the foreign Branch in Head Office Currency

Unit 5: INVESTMENT ACCOUNTING (8hrs)

Meaning – nature of investment – investment ledger – different terms used – cum dividend or interest – ex-dividend or interest – brokerage and expenses – problems

Unit 6: LEASE ACCOUNTING (8hrs)

Concept of Leasing: Important Steps in Leasing. Advantages and disadvantages of Leasing, Types of Leasing - Finance Lease - Operating Lease, Accounting treatment of Finance Lease and of Operating Lease, Sale and Leaseback

SKILL DEVELOPMENT

1. Preparation of different schedules with reference to final accounts of Banking Companies
2. Preparation of financial statement of Life Insurance Company
3. Preparation of financial statement of General Insurance Company
4. Collection of transactions relating to any branch and prepare a branch account

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Advanced Accountancy.
2. S. P. Jain and K. L. Narang – Advanced Accountancy
3. R L Gupta, Advanced Accountancy
4. shukla and Grewal, Advanced accountancy
5. B.S.Raman, Advanced Accountancy
6. Jawaharlal, Management Accounting.
7. Sr. K. Paul: Accountancy, Volume-I and II.(New Central Book Agency, Kolkata)
8. R. K. Lele and Jawaharlal: Accounting Theory (Himalaya Publishers)
9. Dr. L. S. Porwal: Accounting Theory (Tata McGraw Hill).
10. Dr.S.N. Maheshwari: Corporate Accounting (Vikas Publishing House Pvt. Ltd.
11. Dr.Ashok Sehgal & Dr.Deepak Sehgal: Advanced Accounting (Taxmann, New Delhi)

ACCOUNTING STANDARDS

OBJECTIVE

1. To expose the students to the theoretical framework of Accounting.
2. To motivate the students for research in accounting area.

Unit 1: ACCOUNTING THEORY (12hrs)

Accounting Theory- Concept of theory and accounting theory; role of accounting theory; classification of accounting theory, Structure, interpretational and decision- usefulness theories; Deductive, inductive, events, value, predictive, behavioral and ethical approaches; methodology in accounting theory and other approaches.

Unit 2: ACCOUNTING CONCEPTS, PRINCIPLES, POLICIES & STANDARDS (10hrs)

Accounting concepts, principles, policies and standards- classifications, GAAPs, concepts- entity, going concern, period, etc, Conventions- materiality; full disclosure, consistency, etc, Accounting principles v/s accounting policies

Unit 3: INDIAN ACCOUNTING STANDARDS (8hrs)

Indian accounting standards: ASB, accounting standards and their implication on presentation of financial statements.

Unit 4: INTERNATIONAL ACCOUNTING STANDARDS (12hrs)

International accounting standards: formulation of accounting standards, Differences between Indian accounting standards and international accounting standards. International accounting standards and their implication on presentation of financial statements, Overview of IFRS (International Finance Reporting System)

Unit 5: MEASUREMENT OF REVENUES AND EXPENSES (6hrs)

Measurement of Revenues and Expenses; Revenues, nature, compositions, measurement, timing of reporting; Expenses- nature, composition, measurement, timing of reporting of expenses.

Unit 6: VALUATION OF ASSETS AND LIABILITIES (8hrs)

Valuation of Assets and Liabilities: Objectives and different classification; measurement of assets, objectives and purposes of measurement; valuation concept- output based valuation, input based valuation; Depreciation Accounting.

SKILL DEVELOPMENT

1. Write an essay on convergence between IFRSs and US GAAP.
2. Collecting and recording any five IFRSs practiced by the Indian companies

BOOKS FOR REFERENCE

1. Robert N. Anthony & James S. Reere: Accounting Principles, AITBS, new Delhi.
2. Elden S. Hendriksen: Accounting Theory, Richard D. Irwin, New York.
3. Needles: Financial Accounting, All India Publishers & Distributors, Chennai.
4. Ahmed Belkaoui; Accounting Theory, Harcourt Brace Boranovich, New York.
5. Vernon Kam : Accounting Theory, John Wiley & Sons, New York
6. Lele & Jawaharlal: Accounting Theory, Himalaya, Bombay.
7. Jain & Narang: Accounting Theory, Kalyani, New Delhi.
8. Staubus C.J: A Theory of Accounting to Investors, Berkeley, University of California Press.
9. L.S.Porwal: Accounting Theory, TMH, New Delhi.
10. 10.Gupta N.D.Accounting Standards,Sultan Chand& sons,New Delhi.

JOURNALS FOR REFERENCE

1. Journal of management accounting.
2. Journal of accounting & finance.
3. Chartered Secretary.
4. Chartered Accountant.

BUSINESS TAXATION

OBJECTIVE

To enable the students to understand assessment of Firms and Companies in regard to income tax and wealth tax

Unit 1: ASSESSMENT OF HINDU UNDIVIDED FAMILY (14hrs)

Hindu coparcenary, schools of Hindu Law, Basic conditions for assessment, basis of Computation, implication of partition of HUF, problems on calculation of taxable income.

Unit 2: ASSESSMENT OF FIRMS (14hrs)

Meaning of Partnership, Firm and Partners – New Scheme of Taxation of Firms – Assessment of Firms (Section 184) – Computation of Firm’s Business Income – Treatment of Interest and Capital, Salary, Commission, Remuneration received by partners and computation of Firms total income.

Unit 3: ASSESSMENT OF COMPANIES (18hrs)

Introduction – Meaning of Company – Types of Companies – Computation of Depreciation – Computation of Taxable Income of Companies – Minimum Alternative Tax (MAT) – Computation of Tax Liability.

Unit 4: ADVANCE PAYMENT OF TAX (10hrs)

Meaning, when person liable to pay Advance Tax, due of Advance Tax, Calculation of Advance Tax, Consequences when advance tax is not paid.

SKILL DEVELOPMENT

1. Collect financial statement of a firm and compute the taxable income
2. Narrate the procedure for calculation of book profits

BOOKS FOR REFERENCE

1. Vinod K Singhania – “Direct Taxes - Law and Practice”, Taxmann Publications
2. Dr. HC Mehrotra and Goyal, “Direct Taxes”, Sahitya Bhavan Publications
3. Gaur and Narang ; Direct Taxes, Kalyani Publishers
4. Rajiva S. Mishra –Direct & Indirect Tax
5. Santhil & Santhil : Business taxation.
- 6 S. Bhat – Taxation Management.

CORPORATE TAX PLANNING

OBJECTIVE

To give an integrated view of direct tax and Company laws to business decisions and to enable the students to independently calculate and analyze tax liabilities

Unit1: OVERVIEW OF COMPANY LAW (8hrs)

Meaning, importance, implications, important amendments being implemented

Unit 2: BASIC FRAMEWORK OF DIRECT TAXATION (12hrs)

Principles of direct taxation appraisal of annual finance act, tax planning and its methods, advance tax rulings. DTC (direct Tax Codes) – overview and implications

Unit 3: SALIENT FEATURES OF COMPANY TAXATION (10hrs)

Salient features of company taxation, scheme of taxing business income of companies, business deductions/ allowances, disallowances and depreciation.

Unit 4: COMPUTATION OF TAXABLE INCOME OF COMPANIES (18hrs)

Computation of taxable income of companies, set off and carry forward of losses, deductions under section 80. Tax planning with respect to amalgamation and demergers, multinational companies double taxation treaties, joint ventures and foreign collaborations, tax consideration in make or buy, own or lease, retain or replace, transfer pricing. International taxation - Overview

Unit -5: PROCEDURE FOR ASSESSMENT (8hrs)

Procedure for assessment, deduction of tax at source, advances payment of tax, refunds, appeals and revisions.

SKILL DEVELOPMENT

1. Tax management is essential for every assessee but tax planning is optional, comment
2. Explain the consequences, where the scientific research assets are sold without having been used for other purposes

BOOKS FOR REFERENCE

1. Dr. Bhagwathi Prasad, Direct taxes law and practices, Wishwa Prakashan, Delhi.
2. Vinod k. Singhania, Direct tax law and practice, taxman.
3. Lal.b.b., Direct taxes, konark publishers, New Delhi.
4. Agarwal PK. Tax Planning for Companies, Hind Law Publishers, New Delhi.
5. Dr. H C Mehrotra & Dr. S P Goyal, Income Tax Law and Practice, Sahitya Bhavan, Agra.
6. Sukumar Bhattacharya, Tax Planning in India.
7. Sharat Bhargav, Direct Taxes, Mashbra Publications, New Delhi.

INDIRECT TAX

OBJECTIVE

The objective is to equip students with the application of principles and provisions of GST laws, and provide an insight into practical aspects and apply the provisions of tax laws to various situations.

Unit 1: BACK GROUND OF GST (10hrs)

What is GST? - Process of introduction of VAT at the Centre and the States – Advantages and Limitations of VAT - Process of preparation for GST – Comprehensive structure of the GST model – Australian Model – Canadian Model – Kelkar-Shah Model – Bagchi-Poddar Model – The Practical Model – FAQs on GST u/s. 4

Unit 2: JUSTIFICATION FOR INTRODUCTION OF GST (8hrs)

Shortcomings at the Central Level - Advantage at the Central Level on introduction of GST - Shortcomings at the State Level - Advantage at the State Level on introduction of GST.

Unit 3: SALIENT FEATURES OF PROPOSED GST MODEL (18hrs)

CONCURRENT DUALGST (i) Dual GST model (ii) Applicability of GST (iii) Apportionment of GST between Central and States (iv) Input tax Credit under GST (v) Cross utilization of ITC between the Central GST and the State GST (vi) Refund and Adjustment of GST (vii) Collection of GST (viii) Administration (ix) Chargeability (x) Compounding Option (xi) Returns under GST (xii) Registration Number (xiii) Audit and Assessment - Other Features of Dual GST Model.

Unit 4: INTER STATE GOODS AND SERVICE TAX (4hrs)

Major advantages of IGST Model - Interstate Goods & Service Tax-illustration

Unit 5: GST RATE STRUCTURE (8hrs)

GST rates in prominent Countries, Zero Rating of Exports, GST on imports, Special Industrial Area Scheme, Transactions within a state under GST & Inter-State Transactions – Under GST

Unit 6: TAXES AND DUTIES SUBSUMED UNDER GST (8hrs)

Taxes & Duties outside the purview of GST – (i) Tax on items containing Alcohol (ii) Tax on Petroleum Products Other Taxes & Duties on special items (i) Tax on Tobacco products (ii) Taxation of Services

SKILL DEVELOPMENT

1. Narrate the procedure for calculation of GST
2. Preparation of challans for payment of tax
3. Preparation of Manufacturers Invoice
4. Preparation of Tax invoice under the GST law

BOOKS FOR REFERENCES

1. L.K. Jain, Central Excise Manual, Contay Publishers P. Ltd.
2. D.N. Khole, B.N.Sharamaetal, Customs Tariff, Census Publishers.
3. Bare Acts of GST.
4. B.K.Ghargava, Indirect Tax Laws, Taxman Allied Services.
5. V.S.Datey, U.K.Bhargava, Indirect Tax Law and Practices.
6. Central Excise Guidelines and Procedures, Nabi Pub. New Delhi.
7. R.K.Jain, Customs Law Manual, ii) Central Excise Manual, iii) Central Excise Law guide, Contex Pub. New Delhi.
8. ArvindDatar, Guide to Central Excise – Law and Practice Vol. I ,Wadhwa and Co. Nagpur.
9. AcharyaShuklendra, Central Excise – Law, Practice and procedure Vol I & II, Modern Law Publisions, Allahabad.
10. S.P. Bhatnagar, Customs Law and Procedure, Contex Pub. New Delhi

FINANCE GROUP

International Finance
Strategic Financial Management
Corporate Financial Policy
Security Analysis & Portfolio Management
Financial Risk Management

INTERNATIONAL FINANCE

OBJECTIVE:

To familiarize the students with International Financial Management issues

Unit 1: INTRODUCTION TO INTERNATIONAL FINANCE (12hrs)

Introduction to International Finance, Methods of Payment, International Monetary system, Issues Involved in International Business and Finance, Recent Developments.

Unit 2: FOREIGN EXCHANGE AND BALANCE OF PAYMENTS (16hrs)

Introduction to Forex, Forex Market & Its Intermediaries, ADR, GDR, Foreign Exchange Rate, Theories of Foreign Exchange Rate Determination, Exchange Rate Forecasting.

Unit 3: INSTRUMENTS IN INTERNATIONAL FINANCIAL MARKETS. (8hrs)

Meaning, definition, international finance markets, Globalization of Capital markets, Innovation in foreign securities and international portfolio management.

Unit 4: FOREIGN EXCHANGE RISK (10hrs)

Meaning, Definition, Participants, Types of Exchange risks, Derivative Instruments used for Hedging: Valuation of Futures, Options and Swaps – Problems, Derivatives from Indian Market Perspective – SWOC Analysis.

Unit 5: INTERNATIONAL FINANCIAL INSTITUTIONS AND LIQUIDITY (14hrs)

Introduction to IMF, International liquidity and SDR's (special drawing rights) – International Bank for Reconstruction and Development (IBRD or World Bank), International Development Association (IDA), Asian Development Bank (ADB), International Finance Corporation (IFC) and Multilateral Investment Guarantee Agency (MIGA)

SKILL DEVELOPMENT

1. Visit any authorized dealers' establishments and understand their activities.
2. Analyze the trend of FDI into India in the last five years.

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Madhu Vij, International Finance.
3. Keith Pibean, International Finance.
4. Avadhani B.K, International Finance Theory and Practice.
5. R.M Srivastava , Multinational Financial Management.
6. P.A. Apte, International Financial Management.

7. Bndar D.C, International Finance.
8. Murthy E.N, International Finance & Risk Management.
9. M.L. Verma, Foreign Trade & Management in India.
10. Rao and Chary, International Finance.
11. Ramachandra & Others ; International Finance

STRATEGIC FINANCIAL MANAGEMENT

OBJECTIVE

- To understand advanced financial management theories and techniques
- To apply theories and techniques for strategic decision making

Unit 1: BUSINESS VALUATION BASICS (20hrs)

Concept of Value; Types of Values; Factors determining Value; Misconceptions about Valuation; Written Valuation Reports, Elements of Business Valuation; Conceptual Overview – Equity and Enterprise Value, Fundamental v/s Relative Valuation, Basis for Valuations; Valuation Approaches – DCF Valuation (Income Approach), Relative Valuation (Market Approach), Contingent Claim Valuation, Asset-based approach, Other Approaches (EVA and Performance-based compensation plans); Choice of Approach; Fair Market Value; Adjustments for valuation purposes.

Related Concepts in Business Valuation – Efficient Market Hypothesis, The impact of changing Capital Structure on the Market Value of the Company, Priorities of different stakeholders in terms of Business Valuation

Illustrations on Valuation – Valuation of a Project, Valuation of an Instrument, Valuation of Equity, Valuation of a Company

Unit 2: MEASURE OF LEVERAGE, EFFECTS OF LEVERAGE (12hrs)

Meaning of Capital Structure, Types, Factors affecting Capital Structure Decisions, Capital Structure Theories, Capital Structure Planning, EBIT-EPS Analysis – Advanced Problems.

Dividend Decisions- relevance and irrelevance theories, types of dividend policies, behavioral models of dividend policy, signaling theory, clientele effects, factors influencing dividend policy, corporate dividend practices in India.

Unit 3: MANAGEMENT OF INTEREST RATE EXPOSURE (12hrs)

Introduction; Nature and Measurement of Interest Rate Exposure; Forward Rate Agreements (FRAs); Interest Rate Options; Interest Rate Caps, Floors and Collars; Valuation of Interest Rate Options; Options on Interest Rate Futures; Interest Rate Swaps

Unit 4: SHORT TERM FINANCIAL MANAGEMENT (16hrs)

Introduction; Short-Term Borrowing and Investment; Where should surplus cash be held?, Importance of Cash budgeting, Investing Surplus Funds, Financing Short-Term Deficits; Centralized versus Decentralized Cash Management, Netting, Exposure Management, Cash Pooling, Disadvantages of Centralized Cash Management; Cash Transmission.

SKILL DEVELOPEMENT

1. List out the companies, which have declared dividends recently along with the rate of dividend
2. List out different modes of dividend policy

BOOKS FOR REFERENCE

1. Business Valuation Management, ICWA Final Study Material, ICWAI
2. Strategic Financial Management, CA Final (New) Course, ICAI
3. International Financial Management, P G Apte, Tata McGraw Hill
4. Mergers, Restructuring and Corporate Control, J Fred Weston & Others, Prentice Hall of India
5. Principles of Corporate Finance (Special Indian Edition), Brealey, Myers, Allen and Mohanty, Tata McGraw Hill
6. Financial Management, M Y Khan & P K Jain, Tata McGraw Hill

CORPORATE FINANCIAL POLICY

OBJECTIVE

To expose the student towards corporate financial policies

Unit 1: FINANCIAL POLICY

(12hrs)

Meaning – Scope - Interface of Corporate Financial Policy and other Managerial Functions – Decision in Corporate Financing Policy – Debt Financing – Internal Financing - Factors to be considered in formulating Financing Policy – Problems on EPS and Point of Indifference.

Unit 2: COST OF CAPITAL

(14hrs)

Meaning and Definition – Significance of Cost of Capital – Types of Capital – Computation of Cost of Capital – Specific Cost – Cost of Debt – Cost of Preference Share Capital – Cost of Equity Share Capital – Weighted Average Cost of Capital – Problems.

Unit 3: CORPORATE FINANCIAL GOALS

(8hrs)

Mission - Vision – Profit Maximization - Wealth Maximization – Economic & Business Environment – Sustained Growth Approach – Fund availability – Maximizing Growth - Growth Potential of a Single Product Company - Growth Potential of Multi Product Company.

Unit 4: MERGERS AND ACQUISITIONS

(16hrs)

Meaning - Reasons – Types of Combinations - Forms of Merger – Motives and Benefits of Merger – Financial Evaluation of a Merger - Merger Negotiations - Meaning and Significance of P/E Ratio. Problems on Exchange Ratio, EPS and Market Price Methods – Valuation M&As

Unit 5: CORPORATE VALUATION

(10hrs)

Meaning of Corporate Valuation – Methods of Corporate Valuation – Reasons for Corporate Valuation – Different approaches for Corporate Valuation - Valuation of Bonds and Intangible Assets – Valuation of Bonds and Shares – Problems

SKILL DEVELOPMENT

1. Formulation of financing policy
2. Case analysis of some live merger reported in business magazines
3. Analyzing business growth of some companies on the basis of reported financial results of some companies.
4. Identify Mission, vision statement of Company.
5. Case study of growth pattern of a single product / multi product.

BOOKS FOR REFERENCE

1. I M Pandey, Financial management.
2. R P Rustagi, Financial management.
3. J C Vanhorne, Financial management.
4. Sudhindra Bhat ; Corporate Finance.
5. S.C. Sharam and Monica : Indian Financial System I.K. Intl
6. Dr. Besent Ray, Corporate management.
7. Weston and Brigham, Essentials of Managerial Finance.
8. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
9. E Gardon & K Natarajan: Financial Markets & Services
10. Nishikanta Jha ; Mergers Acquisitions and Corporate Restructurings

SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

OBJECTIVE

To familiarize the students about investment decisions and portfolio decisions.

Unit 1: INTRODUCTION TO INVESTMENT MANAGEMENT (16hrs)

Meaning of Investment – Selection of Investment – Classification of Securities – Risk and Uncertainty – Types of Risks – Risk and Return Set-off– Measurement of Portfolio Risk – Benefits of Diversification – Investment Strategies – Types of Companies and Stocks – Matrix approach in Investment Decision – Investment Avenues: Traditional and Modern Avenues.

Unit 2: SECURITY ANALYSIS (14hrs)

Introduction – Fundamental Analysis – Economic Analysis – Industry Analysis – Company Analysis, Technical Analysis – Dow Theory – Advanced Declined Theory – Tools for Technical Analysis, Efficient Market Hypothesis (EMH) – Meaning and Types.

Unit 3: MODERN PORTFOLIO THEORY (14hrs)

Introduction – Harry Markowitz Optimum Portfolio Theory – Risk Free Lending and Borrowing – Capital Asset Pricing Model Capital Market Line – Security Market Line – Beta Factor – Alpha and Beta Coefficient – Sharpe Single Index Model, Arbitrage Pricing Model.

Unit 4: PORTFOLIO MANAGEMENT (6hrs)

Portfolio Evaluation Strategies - Sharpe Model – Jensen Model – Treynor Model and MM Model

Unit 5: GLOBAL MARKETS (10hrs)

Global Investment Benefits – Introduction to ADRs, GDRs, IDRs, FCCBs, Foreign Bonds, Global Mutual Funds – Relationship between Trends in Global Markets and the Domestic Markets, International Investing, International Funds Management, Emerging Opportunities.

SKILL DEVELOPMENT

1. Prepare an imaginary investment portfolio for salaried man whose income as 10 lacks per annum and estimate savings is 2 lacks per annum.
2. Make list of thirty companies which gone for an IPO very recently
3. Prepare a statement showing the ups and downs in the BSE index to the last one years

BOOKS FOR REFERENCE

1. Kevin, Investment and Portfolio Management
2. Prasanna Chandra, Investment Analysis and Portfolio Management, Mcgraw-Hill
3. Sudhindra Bhat- Security Analysis and Portfolio Management Fischer and Jordan, Security Analysis and Portfolio Management, Prentice Hall
4. Avadhani, Investment Analysis and Portfolio Management, HPH'
5. A.P. Dash : Security Analysis and Portfolio Management I.K. Intl
6. Rohini Singh - Security Analysis and Portfolio Management
7. Punithvathy Pandian – Security analysis & portfolio Mgt
8. Preeti Singh - Security Analysis and Portfolio Management

FINANCIAL RISK MANAGEMENT

OBJECTIVE

The objective is to expose students to acquire skills in Financial Risk Management.

Unit1: RISK MANAGEMENT (12hrs)

Introduction, Concepts, Objectives, Process, Role of Insurance, Role of Derivative Instruments - Functions of Derivative Market, Financial Engineering. Participants in the Derivatives Market

Unit 2: FORWARDS, FUTURES AND OPTIONS (24hrs)

Futures v/s Forwards, Types of Futures, Cost of Carry Model, Pricing of Forwards and Futures, The Mechanics of Buying and Selling Futures, Types of Orders, Hedging Strategies Using Futures - Types. Futures Market in India – Recent Developments; Index Futures - valuation and hedging using index futures- illustrations, Interest Rate Futures- Hedging and speculation with interest rate futures.

Options Contracts and Trading: Introduction, Parties in Options Trading, Players in Options Market, Types of Options, Mechanics of Options, Trading in Options, Options Pricing, Index Options, Currency Options, Interest Rate Options, Options on Futures, Hedging Strategies: Protective Puts, Protective Calls, Covered Calls, Spreads, Straddle and Strangle. Valuation of Options: Black Scholes Model and Binomial Distribution Model.

Unit 3: FORWARD RATE AGREEMENTS (FRAs) AND SWAPS (8hrs)

Management of Interest Rate Exposure – Nature and Measurement – Forward Rate Agreements (FRAs), SWAPS: Evolution, Types and Illustrations on Valuation of Swaps.

Unit 4: DERIVATIVES AS RISK MANAGEMENT TOOLS AND VAR (16hrs)

Derivatives as Risk Management Tools, Features and Types of Hedging, Classification of Derivatives, Risk Management - Credit Derivatives: Implementation of Value at Risk System (VAR): Overview of VAR methodology, Statistical Concepts, Application of VAR, VAR for FX Position, Hedging and Arbitrage Opportunities.

SKILL DEVELOPMENT

- Understand the elements of financial Risk Management. Adequate exposure to the functioning of financial Risk Management tools.

REFERENCE BOOKS

1. Dun & Bradstreet: *Financial Risk Management*, Tata McGraw-Hill Publication.
2. Kotreshwar, G: *Risk Management- Insurance and Derivatives*, Himalaya Publishing House
3. Trieshmann, Gustavson & Hoyt: *Risk management & Insurance*, Thomson Learning Inc
4. Crouhy M. Dan Galai and Robert P. Mark: *Risk Management*, McGraw-hill Co.

BUSINESS INFORMATION AND TECHNOLOGY GROUP

Accounting Information Systems
Enterprise Resource Planning
Big Data Analytics
Information Technology and Audit
Banking Technology and Management

ACCOUNTING INFORMATION SYSTEMS

OBJECTIVE

Accounting Information Systems is concerned with the way computerized information systems impact how accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.

Unit – 1: THE INFORMATION SYSTEM: AN ACCOUNTANT’S PERSPECTIVE (10hrs)

The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function. Evolution of Information System Models - The Manual Process Model, the Flat-File Model, the Database Model, the REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2: INTRODUCTION TO TRANSACTION PROCESSING (10hrs)

An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle , Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts , Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems , Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3: COMPUTER-BASED ACCOUNTING SYSTEMS (10hrs)

Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues

Unit – 4: FINANCIAL REPORTING AND MANAGEMENT REPORTING SYSTEMS (10hrs)

Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting , Behavioral Considerations.

Unit – 5: COMPUTER CONTROLS AND AUDITING IT CONTROLS (8hrs)

Relationship between IT Controls and Financial Reporting, Audit Implications of Sections IT Governance Controls, Organizational Structure Controls, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure.

Unit – 6: COMPUTER CENTER SECURITY AND CONTROLS (8hrs)

Computer Center Controls Disaster Recovery Planning - Providing Second-Site Backup , Identifying Critical Applications, Performing Backup and Off-Site Storage Procedures, Creating a Disaster Recovery Team, Testing the DRP, Audit Objective: Assessing Disaster Recovery Planning, Audit Procedures for Assessing Disaster Recovery Planning

SKILL DEVELOPMENT

1. Generation of different types of management reports
2. Preparation of dataflow diagrams
3. Preparation of different flowcharts
4. Computerization of transactions and drawing of a Balance Sheet

BOOKS FOR REFERENCE

1. Accounting Information Systems, 11/E Marshall B. Romney, *Brigham Young University*
Paul J. Steinbart, *Arizona State University*, Prentice Hall
2. The Crossroads of Accounting and IT Donna Kay, Ali Ovlia, May 2011, Hardback,
3. Accounting Information Systems International Edition 10th Edition George Bodnar,
William Hopwood Aug 2009

ENTERPRISE RESOURCE PLANNING

OBJECTIVE

This course covers concepts in enterprise resource planning (ERP). The main focus of this course is to show how ERP systems integrate business processes across functional areas and support business management and performance analysis.

Unit 1: INTRODUCTION (10hrs)

Basic ERP Concepts, Enterprise-An overview, Benefits & Risk, Evolution and Structure: Conceptual Model of ERP, The Evolution of ERP, and The Structure of ERP.

Unit 2: ERP MARKET (10hrs)

ERP Market Place and Market Place Dynamics, Market Overview, The Changing ERP Market, SAP AG, Oracle, PeopleSoft, JD Edwards. Future Directives in ERP

Unit 3: ERP & RELATED TECHNOLOGIES (10hrs)

Business Process Reengineering (BPR), Data Warehousing and Data Mining, OLAP, Product Life Cycle Management, Supply Chain management, CRM

Unit 4: ERP FUNCTIONAL MODULE (10hrs)

Introduction, Finance, Human Resource, Production Planning, Material Management, Sales and Distribution, Integration of ERP, SCM & CRM

Unit 5: SAP- PROJECT PLAN AND IMPLEMENTATION (12hrs)

Implementation Challenges, ERP Implementation Strategies, ERP Implementation Life Cycle, Implementation Methodologies, ERP Projects Teams, Vendors and Consultants, Dealing with employee resistance, Training and Education, data migration, Project Management and monitoring, Post Implementation Activities.

Unit 6: MAJOR REPORTING (6hrs)

Functional department's reports and information to stakeholders and legal Compliances

SKILL DEVELOPMENT

Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE

1. Alexis Leon, “ERP Demystified”, TMH.
2. Rahul V. Altekar “ Enterprise wide Resource Planning” , TMH
3. Vinod Kumar Garg and Venkitakrishnan N K, “Enterprise Resource Planning Concepts and Practice”. PHI
4. Joseph A Brady, Ellen F Monk, Bret Wagner, “Concepts in Enterprise Resource Planning”, Thompson Course Technology.
5. S. Sadagopan, “ERP A Managerial Prospects
6. Managing Business Process Flows: Ravi Anupindi, Suni Chopra, Pearson Education.
7. Enterprise Resource Planning: Altekar, PHI.
8. Enterprise Resource Planning : Srivatsava, I.K. International Publishers
9. Enterprise Resource Plannin : P. Diwan
10. Introduction to SAP, an Overview of SD: MM, PP, FI/CO Modules of SAP.
11. Enterprise Resource Planning : Zaveri Jyotindra
12. Enterprise Resource Planning : C.S. V Murthy

BIG DATA TECHNOLOGY

OBJECTIVE

The curriculum will help students get a visceral understanding of the entire data value chain – the flow of information from inception to analysis to insight – that is essential to drawing insights from big data.

Unit 1: INTRODUCTION TO BIG DATA (12hrs)

Introduction – distributed file system – Big Data and its importance, Four Vs, Drivers for Big data, Big data analytics, Big data applications. Algorithms using map reduce, Matrix-Vector Multiplication by Map Reduce.

Unit 2: INTRODUCTION HADOOP (8hrs)

Big Data – Apache Hadoop & Hadoop EcoSystem – Moving Data in and out of Hadoop – Understanding inputs and outputs of Map Reduce - Data Serialization.

Unit 3: HADOOP ARCHITECTURE (14hrs)

Hadoop Architecture, Hadoop Storage: HDFS, Common Hadoop Shell commands , Anatomy of File Write and Read., Name Node, Secondary Name Node, and DataNode, Hadoop MapReduce paradigm, Map and Reduce tasks, Job, Task trackers - Cluster Setup – SSH & Hadoop Configuration – HDFS Administering –Monitoring & Maintenance.

Unit 4: HADOOP ECOSYSTEM AND YARN (8hrs)

Hadoop ecosystem components - Schedulers - Fair and Capacity, Hadoop 2.0 New Features- Name Node High Availability, HDFS Federation, MRv2, YARN, Running MRv1 in YARN.

Unit 5: HIVE AND HIVEQL, HBASE (14hrs)

Hive Architecture and Installation, Comparison with Traditional Database, Hive QL - Querying Data - Sorting And Aggregating, Map Reduce Scripts, Joins & Subqueries, HBase concepts- Advanced Usage, Schema Design, Advance Indexing - PIG, Zookeeper - how it helps in monitoring a cluster, HBase uses Zookeeper and how to Build Applications with Zookeeper

SKILL DEVELOPMENT

1. Collect and arrange the student data file in the following format - Name, age, gender and i) Write a PIG script to Display Names of all female students ii) Write a PIG script to Display age wise count of all male students.
2. Explain in detail how hive is different form PIG

BOOKS FOR REFERENCE

1. Boris lublinsky, Kevin t. Smith, Alexey Yakubovich, “Professional Hadoop Solutions”, Wiley, ISBN: 9788126551071, 2015.
2. Chris Eaton, Dirk deroos et al. , “Understanding Big data ”, McGraw Hill, 2012.
3. Tom White, “HADOOP: The definitive Guide” , O Reilly 2012.
4. VigneshPrajapati, “Big Data Analytics with R and Haoop”, Packet Publishing 2013.
5. Tom Plunkett, Brian Macdonald et al, “Oracle Big Data Handbook”, Oracle Press, 2014.
6. <http://www.bigdatauniversity.com/>
7. JyLiebowitz, “Big Data and Business analytics”,CRC press, 2013.

OBJECTIVE

This subject aims at imparting knowledge about auditing done with the use of information technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE (12hrs)

Introduction – Meaning - Definition — Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS (10hrs)

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS (10hrs)

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods and setting closing stock manually in the balance sheet, Balance sheet of joint stock companies

Unit 4: TAX AUDIT (8hrs)

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT (6hrs)

Creation and maintenance of Audit Program, create the Audit Program as pre audit activity, Supports to prepare and maintain Audit Working Papers, Facility to mark the applicable and compiled Accounting Standards for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE

1. Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.
2. Guide to Tally 9, Law Point,
3. Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5.

BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this course is to acquaint students with the banking technology and their recent developments. Also it will enhance the students with live picture of modern banking concepts and Techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING (12hrs)

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS (12hrs)

Over of delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3: BACK OFFICE OPERATIONS (12hrs)

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4: INTER BANK PAYMENT SYSTEM (10hrs)

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGSS – Negotiated dealing systems and securities settlement systems – Electronic Money – E-cheques.

Unit 5: CONTEMPORARY ISSUES IN BANKING TECHNIQUES (10hrs)

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

SKILL DEVELOPMENT

1. Filling of application for opening a Bank Account
2. Preparations of Bank Reconciliation Statement
3. Identify and compare the banking delivery channels of nationalized banks and private banks
4. List out the boons and the banes of computerization of banks operations
5. Current issues in banking technology to be discussed in class.

BOOKS FOR REFERENCE

1. Kaptan S S & Choubey N S, "E-Indian Banking in Electronic Era", Sarup & Sons, New Delhi 2003.
2. Vasudeva, "E-Banking", Common Wealth Publishers, New Delhi, 2005.
3. Chandramohan : Fundamental of Computer Network I.K. International Publishers
4. Efferim Turban, Rainer R. Kelly, Richard E.Potter, "Information Technology", John Wiley & Sons Inc, 2000.
5. Andrew S. Tanenbaum, "Computer Networks", Tata Mcgraw Hill, 3rd Edition, 2001
6. Padwal & Godse : Transformation of Indian Banks with Information Technology.

BANKING & INSURANCE GROUP

International Banking & Forex Management
Life and General Insurance
Risk Management
Marketing of Insurance Products
Actuarial Science

INTERNATIONAL BANKING & FOREX MANAGEMENT

OBJECTIVE

The objective of this course is to enable the students to understand the various concepts of international banking and foreign exchange rate determination.

Unit1: INTRODUCTION TO INTERNATIONAL BANKING (10hrs)

Introduction – Meaning – Functions – Financing of Exports – Financing of Imports – International Payment Systems.

Unit 2 : INTERNATIONAL CAPITAL MARKETS (10hrs)

Introduction – meaning and Definition – Types – Financial market flow beyond national boundaries – Debt and non – debt flows – Volatile and Stable flows – interest rate differentials - Demand for and supply of funds across borders

Unit 3 : OFFSHORE BANKING CENTRES (10hrs)

Introduction – Meaning – Role in International Financing – Global Balance sheet of bank – Asset and Liability Management of Foreign Banks.

Unit 4: FOREIGN EXCHANGE AND MARKETS (14hrs)

Introduction – Meaning – Elements – Importance – Evolution of Exchange Rate System – International Monetary System – Gold Standard – types of exchange rates – Fluctuations in Foreign Exchange rates – Causes and Effects – Need for Stable foreign exchange Rates – Determination of Exchange rates – Theories of Determination of Foreign Exchange Rates.

Unit 5 : FOREX MARKET IN INDIA (12hrs)

Introduction – Meaning – Types – Operations – Convertibility - Objectives of Foreign Exchange Control – Problems of Foreign Exchange market in India – Mechanism to settle the problems - Role of RBI in settlement of foreign exchange problems in India.

SKILL DEVELOPMENT

1. Chart showing the currencies of Different countries
2. Table showing one month foreign exchange rates of Rupee and US \$
3. Role of RBI in settlement of foreign exchange problems in India
4. Global Balance sheet of a bank
5. Comment on Asset and Liability Management of a Foreign Bank

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Keith Pibean, International Finance.
3. Madhu Vij, International Finance.
4. Timothy Carl Kesta, Case and Problems in International Finance.
5. Avadhani B.K, International Finance Theory and Practice.
6. Somanatha: International Financial Management I.K. International Publishers
7. P.A. Apte, International Financial Management.
8. Levi, International Marketing Management.
9. Chaudhuri & Agarwal Foreign Trade & Foreign Exchange, HPH

LIFE & GENERAL INSURANCE

OBJECTIVE

To enable the students to understand various aspects of Life & General Insurance

Unit 1: INTRODUCTION TO LIFE INSURANCE (12hrs)

Introduction to Life Insurance - Principles of Life Insurance - Life insurance products, pensions and annuities - Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

Unit 2: LEGAL ASPECTS OF LIFE INSURANCE (12hrs)

Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA Act

Unit 3: CLAIM MANAGEMENT & RE-INSURANCE (10hrs)

Claim Management - Claim Settlement - Legal Framework - Third party Administration, Insurance ombudsman - Consumer Protection Act - Re-Insurance in Life Insurance - Retention Limits - Methods of re-insurance.

Unit 4: INTRODUCTION TO GENERAL INSURANCE (12hrs)

Introduction to General Insurance, Principles of General Insurance, Types of General Insurance - Personal general insurance products (fire, personal liability, motors, miscellaneous insurance). Terminology, clauses and covers, Risk assessment, underwriting and ratemaking, Product design, development and evaluation, Loss Provincial control

Unit 5: INSURANCE INDUSTRY (10hrs)

Insurance industry - Brief History - Pre Nationalization and post nationalization - Current scenario.- Re-Insurance - Functions, Methods of re-Insurance.

SKILL DEVELOPMENT

1. Calculation of policy premium with imaginary figures
2. Calculation of fair claims with imaginary figures
3. Preparation of list occupational hazards under life insurance

BOOKS FOR REFERENCE

1. P. Perya Swamy ;Principles and Practice of Life Insurance
2. Raman B, Your Life Insurance Hand Book
3. William C. Arthur, Risk Management and Insurance
4. G. Krishna Swamy: A Text book on Principles and Practices of Life Insurance
5. Gopal Krishnan, Liability Insurance
6. Aramvalarthan : Risk Management I.K. Intl
7. Mishra M.N, Insurance Principles and Practice
8. Bose A.K, Engineering Insurance
9. Fire Insurance Claim – Insurance institute of India
10. P. K Gupta; Insurance & Risk Management

RISK MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Risk Management

Unit 1: INTRODUCTION TO RISK MANAGEMENT (10hrs)

Introduction to risk management- elements of uncertainty peril, Hazards – types risk management process - definition, types and various means of managing risk – limitations of risk management.

Unit 2: SOURCES OF RISK AND EXPOSURE (10hrs)

Sources of risk and exposure, pure risk and speculative risk, acceptable and non- acceptable risks, static and dynamic risk, various elements of cost of risk,

Unit 3: CORPORATE RISK MANAGEMENT (12hrs)

Corporate risk management, riskiness of returns, -approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

MODULE 4: MANAGEMENT OF PURE RISK AND INSURANCE (12hrs)

Objectives of Managing Pure Risk, Methods of Managing Pure Risk, Identification and measurement of Expected Losses, Measurement of Expected Losses. Insurance and Value Maximization, Kinds of Insurance, New dimensions: Reinsurance, Banc assurance, and Alternative Risk Transfer.

MODULE-5 INSURANCE UNDERWRITING-NEED FOR UNDERWRITING (12hrs)

Meaning, Definitions, Importance, Factors to be considered on activity of underwriting, underwriter, IRDA Regulation on underwriting, functions of underwriting, steps involved in the process of Insurance Underwriting

SKILL DEVELOPMENT

- Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools

BOOKS FOR REFERENCE

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance institute of India
6. N. Gulati –Risk Management
7. Aramvalarthan : Risk Management I.K. International Publishers
8. Life Insurance Claims - Insurance institute of India
9. Gupta S.P, Liability and Engineering Insurance
10. Gupta S.P, Marine Insurance Claim
11. G. Kotheshwar Rao – Risk Management

MARKETING OF INSURANCE PRODUCTS

OBJECTIVE

To enable the students to acquire skills in Marketing of Insurance Products

Unit 1: INTRODUCTION TO MARKETING IN THE INSURANCE INDUSTRY (14hrs)

The role of the customer in marketing, The definition of marketing, Marketing and other related business functions within the insurance industry, Creating a marketing strategy for insurance products, Impact of external and internal factors on the marketing strategy, External considerations including: Social – Economic – Competition – Technological – Ecological and Meteorological – Consumer protection, Internal considerations including: Structure - Behavior – Values.

Unit 2: MARKETING THEORY AND CONCEPTS IN THE INSURANCE INDUSTRY (14hrs)

Insurance customers and their buying patterns, Supply and demand in the insurance industry (including insurance cycle), The marketing mix, Segmentation of existing and prospective customers, Competitive positioning, Differentiation of the product, Financial Value Chain analysis, Portfolio management, The life cycle of insurance products, Analyzing existing insurance customers, Core competencies, Internal auditing of marketing practices, SWOT analysis.

Unit 3: DEVELOP A MARKETING STRATEGY FOR INSURANCE PRODUCTS (14hrs)

Identifying segments in insurance customers, Customer's attributes and behaviors, Using data from customer relationship management systems to feed into strategy, Identifying competitors, Competitor's portfolio of offerings and position, Developing a portfolio of opportunities, Scenario testing, Taking a position in the market, Value and supply chain analysis, Pricing, Regulation, Branding insurance products and services, Establishing a brand, The importance of branding, Brand awareness, Brand extension, White labeling.

Unit 4: IMPLEMENT AND DELIVER A MARKETING STRATEGY (14hrs)

Communicating the marketing message for insurance products and services, The marketing communications portfolio, The marketing message, E-marketing, Advertising, Sales and account management, Public relations, Promotion, Sponsorship, Emergency communications plan, Distributing insurance and finance products and services, Different channels for distribution (including Call centers), Distribution options: Financial advisers – Intermediaries / brokers – Direct selling – Financial institutions, including banc assurance – Aggregators – Other organizations distributing insurance, Risk assessment, Service delivery, Customer experience, including claims, Managing the customer relationship.

SKILL DEVELOPMENT

1. Preparation of an advertisement copy to Marketing Insurance Products
2. Conducting a survey to understand policy holders stratification
3. Designing brochure for Marketing Insurance Products

BOOKS FOR REFERENCE

1. Marketing: concepts and strategies. Sally Dibb ... [et al]. 5th European ed. Boston, Massachusetts: Houghton Mifflin, 2005.
2. The marketing casebook. Sally Dibb, Lyndon Simpink. 2nd ed. London: Thomson Learning, 2001.
3. Marketing management. Philip Kotler. 13th ed. London: Pearson Education, 2009.
4. Marketing planning for financial services. Roy Stephenson. Aldershot, Hants: Gower, 2005.
5. A Mishra/A Mishra – Marketing strategy.
6. Marketing strategy: the difference between marketing and markets. Paul Fifield. 3rd ed. London: Butterworth- Heinemann, 2007.
7. Marketing theory: a student text. Michael J Baker. London: Thomson Learning, 2000.
8. Principles of marketing. Philip Kotler, Gary Armstrong. 12th ed. International ed. Upper Saddle River, New Jersey: Pearson Education, 2008
9. Innovative Marketing balancing Commercial goals & Corporate responsibility

ACTUARIAL SCIENCE

OBJECTIVE

To enable students to understand the concept of actuarial sciences and to understand the techniques of mortality analysis

Unit 1: INTRODUCTION (14hrs)

Actuarial principles, Elements of compound Interest and elementary theory of probability, Demography, Principles of ratemaking, Data required for rate making, Insurance models, Application of Models.

Unit 2: PREMIUM AND GENERAL PRINCIPLES (12hrs)

Survival distributions and life tables., Loss and express research, Valuation , Sources of surplus and its distribution, Credibility theory and less distribution, Interests and life contingencies

Unit 3: LOANS & ADVANCES (10hrs)

Loans on Insurance, Types of loans, Redemption of loans, Sinking funds, Interest yield on the funds in the life Office

Unit 4: MORTALITY TABLE (8hrs)

Construction of Mortality table and its Sources

Unit 5: TAX PLANNING (12hrs)

Tax Planning - Personal finance, Taxation, The social security schemes and Group Schemes- Background and history, Group underwriting, Group gratuity, Super Annuation Scheme

SKILL DEVELOPMENT

1. Describe the role an Actuary can play in operating an insurance company
2. Discuss the basic rate-making processes

BOOKS FOR REFERENCE

1. Actuarial Science Introduction- Institute of insurance Bombay.
2. Actuarial product development-Insurance Institute of India.



BANGALORE UNIVERSITY

*B.Com. INSURANCE & ACTUARIAL STUDIES (CBCS) DEGREE
SEMESTER SCHEME SYLLABUS 2017 – 2018*

DEPARTMENT OF COMMERCE

Central College Campus, Bengaluru – 560 001.

REGULATIONS PERTAINING TO B.Com INSURANCE & ACTUARIAL STUDIES (CBCS)
DEGREE SEMESTER SCHEME 2017 - 18

I. OBJECTIVES :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Commerce (Hon.) {B.Com, (Insurance & Actuarial Studies)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII.SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has

submitted the prescribed application for the examination along with the required fees to the university.

- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
B.COM INSURANCE AND ACTUARIAL STUDIES (CBCS) SEMESTER SCHEME 2017 – 18
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	1.1	4	3	20	80	100	2
	Language – II : English	1.2	4	3	20	80	100	2
Part 2 Optional	Financial Accounting	1.3	4	3	30	70	100	2
	Indian Financial System	1.4	4	3	30	70	100	2
	Marketing and Services Management	1.5	4	3	30	70	100	2
	Introduction to Actuarial Science and Management	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	2.1	4	3	20	80	100	2
	Language – II : English	2.2	4	3	20	80	100	2
Part 2 Optional	Advanced Financial Accounting	2.3	4	3	30	70	100	2
	Retail Management	2.4	4	3	30	70	100	2
	Banking Law and Operations	2.5	4	3	30	70	100	2
	Fundamentals of Mathematics and Statistics.	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: I Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3.1	4	3	30	70	100	2
	Language – II:English	3.2	3	3	30	70	100	2
Part 2 Optional	Corporate Accounting	3.3	4	3	30	70	100	2
	Financial Management	3.4	4	3	30	70	100	2
	Business Ethics	3.5	4	3	30	70	100	2
	Finance & Financial Mathematics	3.6	4	3	30	70	100	2
	Public Relations and Corporate Communication	3.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	4.1	4	3	30	70	100	2
	Language – II: English	4.2	3	3	30	70	100	2
Part 2 Optional	Advanced Corporate Accounting	4.3	4	3	30	70	100	2
	Cost Accounting	4.4	4	3	30	70	100	2
	E-Business and Accounting	4.5	4	3	30	70	100	2
	Stock and Commodity Markets	4.6	4	3	30	70	100	2
	Principles of Event Management	4.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurship Development	5.1	4	3	30	70	100	3
	International Financial Reporting Standards	5.2	4	3	30	70	100	3
	Income Tax – I	5.3	4	3	30	70	100	3
	Costing Methods	5.4	4	3	30	70	100	3
	Elective – I	5.5	4	3	30	70	100	3
	Elective – II	5.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Business Regulations	6.1	4	3	30	70	100	3
	Principles and Practice of Auditing	6.2	4	3	30	70	100	3
	Income Tax – II	6.3	4	3	30	70	100	3
	Management Accounting	6.4	4	3	30	70	100	3
	Elective – I	6.5	4	3	30	70	100	3
	Elective – II	6.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

ELECTIVE GROUPS**1. FINANCE & ACTUARIAL STUDIES**

Semester No.	Paper No.	Title of the Paper
V	5.5	Statistics & Models
	5.6	Long Term Actuarial Mathematics
VI	6.5	Short Term A Actuarial Mathematics
	6.6	Models & Audit Trails

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM 12 Hrs

Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hrs

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).

Unit 4: ROYALTY ACCOUNTS

12 Hrs

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY 12 Hrs

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- List out Various Accounting Standards
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interestwith imaginary figures under Hire Purchase System.

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

14 Hrs

Types of Banking and Non-Banking Financial Institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Mutual Funds – features and types.

Unit 3: COMMERCIAL BANKS

10 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

10 Hrs

Reserve Bank of India (RBI) – Organization – Objectives – Role and Functions. The Securities Exchange Board of India (SEBI) – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

10 Hrs

Meaning & Definition – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance - housing & vehicle finance.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Markets.
- Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE:

The objective is to familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services

Unit 1: INTRODUCTION TO MARKETING

10Hrs

Meaning and definition - Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing. Recent Trends in Marketing - e-business – Tele-marketing – M-Business – Green Marketing – Retailing, Relationship Marketing – Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT

12Hrs

Meaning – demographic- economic – natural – technological – political – legal – socio cultural environment. Market Segmentation and Consumer Behaviour - Meaning & Definition - Bases of Market Segmentation – Consumer Behaviour – Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX

16Hrs

Meaning – elements – PRODUCT – product mix, product line – product life cycle – product planning – new product development – branding - packing and packaging. PRICING – factors influencing pricing, methods of pricing (only Meaning), and pricing policy - PHYSICAL DISTRIBUTION, Meaning, factors affecting channels, types of marketing channels, PROMOTION –Meaning and significance of promotion – personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICES MANAGEMENT

10Hrs

Meaning of services – characteristics of services – classification of services – marketing mix in service industry – growth of service sector in India. Service processes – Designing the service process – service blueprint – back office & front office process.

UNIT 5: SERVICE SECTOR MANAGEMENT

08 Hrs

Tourism and Travel Services – concept, nature, significance and marketing. Health Care services – concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a new product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition – Financial Service in India.
2. Philip Kotler - Marketing Management, PHI
3. Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
4. Sunil B. Rao - Marketing & Services Mgt – HPH.
5. Dr. Alice Mani: Marketing & Services Management, SBH.
6. J.C. Gandhi - Marketing Management, TMH
7. Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH

8. Jayachandran ; Marketing Management. Excel Books.
9. K. Venkatramana, Marketing Management, SHBP.
10. P N Reddy & Appanniah, Essentials of Marketing Management, HPH
11. Sontakki, Marketing Management, HPH
12. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
13. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
14. K. Karunakaran; Marketing Management, HPH.
15. Davar: Marketing Management.

1.6 INTRODUCTION TO ACTUARIAL SCIENCE AND MANAGEMENT

Hours: 50

OBJECTIVES:

To understand the basic knowledge about Actuarial Science and Management.

Unit I: CONCEPT OF ACTUARY

10 Hrs

Meaning and Definition of Actuary; Nature and Characteristics of Actuarial Sciences; Scope of Actuary; Actuarial Skill sets; Careers in actuary. Role of Actuary in Business

Unit II: EVOLUTION OF ACTUARIAL SCIENCES

12 Hrs

History, Early Actuaries, Technological advances; Actuarial science related to Modern Financial Economics; Actuaries in criminal justice.

Unit III: RISK AND RISK MANAGEMENT PROCESS

14 Hrs

Meaning and Definition of Risk in Insurance, types of risk. Risk Management Process, Loss minimization techniques; Risk management alternatives, Risk control and Risk Financing; Benefits of risk management.

Unit IV: CONCEPT OF INSURANCE

10 Hrs

History and Development of Insurance (life and non life insurances ;) Concepts of insurance, the business of insurance, Insurance Markets – intermediaries and customers, the need for professionalism in insurance business, continued professional Development, Insurance education and training.

Unit V: THE INSURANCE CONTRACT

10 Hrs

Meaning and definition and essential elements of simple contract, Principles of insurance, Types of insurance, Life and non life insurance products.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE :

The objective of this subject is to acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.

Unit 1: INSURANCE CLAIMS

12 Hrs

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 2: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction – Meaning – Consignor – Consignee – Goods Invoiced at Cost Price – Goods Invoiced at Selling Price – Normal Loss – Abnormal Loss – Valuation of Stock – Stock Reserve – Journal Entries – Ledger Accounts in the books of Consignor and Consignee.

Unit 3: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction – Meaning – Objectives – Distinction between joint venture and consignment – Distinction between joint venture and partnership – maintenance of accounts in the books of co-venturers – maintaining separate books for joint venture – preparation of memorandum joint venture - problems.

Unit 4: BRANCH ACCOUNTS

10 Hrs

Introduction – Meaning – Objectives – Types of Branches - Dependent Branches – Features – Supply of Goods at Cost Price - Invoice Price – Branch Account in the books of Head Office (Debtors System Only).

Unit 5 : DEPARTMENTAL ACCOUNTS

10 Hrs

Meaning, Objectives, basis of allocation of expenses, Trading and Profit and Loss Account in Columnar form – (Excluding Inter Departmental Transfers at invoice price)

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- List out the basis of Allocation of Departmental Expenses.
- Preparation of Consignment account with imaginary figures
- Preparation of Joint accounts with imaginary figures

BOOKS FOR REFERENCE:

1. Arulanandam & Raman; Advanced Accountancy, HPH
2. Anil Kumar – Advanced Financial Accounting HPH
3. Dr. Alice Mani: Advanced Financial Accounting, SBH.
4. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
5. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
6. Souandrajan & K. Venkataramana, Financial Accounting, SHBP.
7. A Bannerjee; Financial Accounting.
8. Radhaswamy and R.L. Gupta, Advanced Accounting , Sultan Chand
9. M.C. Shukla and Grewel, Advanced Accounting , S Chand

2.4 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAIL BUSINESS **10 Hrs.**

Definition – functions of retailing - types of retailing – forms of retail business ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario. International perspective in retail business.

Unit 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS **12 Hrs.**

Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction. Retail planning process: Factors to consider in preparing a business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS **10 Hrs.**

Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising, Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.

Unit 4: RETAIL MARKETING MIX **16 Hrs.**

Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal Methods.

Unit 5: IMPACT OF INFORMATION TECHNOLOGY IN RETAILING **08 Hrs.**

Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing.

SKILL DEVELOPMENT

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing
- List out the Factors Influencing in the location of a New Retail outlet.

BOOKS FOR REFERENCE

1. Suja Nair; Retail Management, HPH
2. Karthic – Retail Management, HPH
3. S.K. Poddar & others – Retail Management, VBH.
4. R.S Tiwari ; Retail Management, HPH

5. Barry Bermans and Joel Evans: "Retail Management – A Strategic Approach", 8th edition, PHI/02
6. A.J.Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
7. Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
8. K. Venkataramana, Retail Management, SHBP.
9. James R. Ogden & Denise T.: Integrated Retail Management
10. A Sivakumar : Retail Marketing , Excel Books
11. Ogden : Biztantra, 2007
12. Levy & Weitz : Retail Management -TMH 5th Edition 2002
13. Rosemary Varley, Mohammed Rafiq-: Retail Management
14. Chetan Bajaj : Retail Management -Oxford Publication.
15. Uniyal &Sinha : Retail Management - Oxford Publications.
16. Araif Sakh ; Retail Management

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

10 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

10 Hrs

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special Relationships.

Unit 3: BANKING OPERATIONS

18 Hrs

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course - Statutory Protection to Collecting Banker

Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques.

Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

12Hrs

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P. Srivastava ; Banking Theory & Practice, Anmol Publications
3. M. Prakhas, Bhargabhi R: Banking law & Operation, Vision Book House.
4. Tannan M.L: Banking Law and Practice in India, Indian Law House
5. Sheldon H.P: Practice and Law of Banking.
6. K. Venkataramana, Banking Operations, SHBP.
7. Kothari N. M: Law and Practice of Banking.
8. Neelam C Gulati: Principles of Banking Management.
9. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
10. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
11. S. Vipradas & j. K Syan: Bank Lending
12. Gajendra & Poddar : Law and Practice of Banking
13. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 FUNDAMENTALS OF MATHEMATICS AND STATISTICS.

OBJECTIVES:

To ensure students have grounding in the mathematics and basic statistics that underpin actuarial work.

Unit I: NUMERICAL METHODS:

12 Hrs

Absolute and proportionate change calculation; Percentage change in quantity; The absolute, proportionate and percentage error calculation; Comparison of actual with expected values or approximate with accurate values; Linear interpolation to ascertain approximate value; Simple iterative methods to solve non linear equations; Simple calculations of Vectors, use of row/column vectors, and unit vectors, additions and subtraction of vectors, multiplication of a vector by a scalar, Determining the magnitude and direction of a vector, the scalar product of two vectors; Matrices-transposition of a matrix, addition, subtractions, multiplication of a matrix by a scalar multiplication of the approximately sized matrices. Calculating of Determinant of a 2x2 matrix; calculation of inverse when such a matrix is non singular.

Unit II MATHEMATICAL CONSTANTS AND STANDARD FUNCTIONS

8 Hrs

Definition and basic properties of the functions, sketch of graphs of simple functions involving the basic functions, simplification and calculation of expressions involving the functions, Concept of a limit of a function and the 'lim' notation, Concept of bounded function.

Unit III: ALGEBRA

10Hrs

Powers, logs, polynomials and fractions, simple equations, simultaneous equations, Quadratic equation by factorisation, inequalities in simple cases, Concept of a strict or weak inequality, sums over sets and repeated sums, sum of a series involving finite arithmetic or geometric progression or non terminating geometric progressions, Determination of non terminating geometric series converges, simple first or second order difference equations, Binomial expansion of expressions.

Unit IV CALCULUS:

10 Hrs

Determination of a derivative interpretation of a derivative as the gradient of a graph, Differentiate the standard function, Evaluation of derivatives of sums, products, use of product rule, quotient rule, chain rule, Concept of a higher order derivative; differentiation, identification of stationary points, Concept of indefinite integral, partial derivative, Evaluation of partial derivatives in simple cases, Determination of extreme values of functions of two variables Integration of standard function, indefinite and definite integrals by inspection; convergence of definite integral, Application of Taylor and Maclaurin series in simplest form.

Unit V: PROBABILITY AND STATISTICS

16 Hrs

Use of Table, frequency distribution, Graphs – line plot, box plot, bar chart, histogram, stem and leaf plot; Mean Median, Mode, Standard Deviation, range, inter quartile range as appropriate; Meaning of symmetry and skewness,

Concept and definition of probability, meaning of sample space, calculation of probabilities of events in simple situations, Definition and the use of addition rule for the probability, conditional probability, Bayes Theorem to calculate probabilities; Definition of independence;

Application of permutations and combinations to the calculation of probabilities; Meaning of a discrete random variable. Definition of distribution function, and the probability function and its calculations, Meaning of a continuous random variable, Definition of distribution function, and

calculation of probabilities; Definition of expected value of a function of a random variable, the mean, the variance the standard deviation, coefficient , skewness and their calculations.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES

08 Hrs

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries).

Unit 2: PROFIT PRIOR TO INCORPORATION

12 Hrs

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL

08 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems.

Unit 4: VALUATION OF SHARES

08 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per 2011 revised format)

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect Prospectus of a company and identify its salient features.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the intrinsic value of shares
- Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION

12 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

16 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function of a company.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Capital structure analysis of companies in different industries
- Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
4. G. Sudarshan Reddy, Financial Management, HPH
5. Roy – Financial Management, HPH
6. Khan and Jain, Financial Management, TMH
7. S. Bhat- Financial Management.
8. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
9. I M Pandey, Financial Management. Vikas Publication.
10. Prasanna Chandra, Financial Management, TMH
11. P.K Simha – Financial Management.
12. M. Gangadhar Rao & Others , Financial management
13. Dr. Alice Mani: Financial Management, SBH.

3.5 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS 12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS 12 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT 12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS 12 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE 12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

3.6 FINANCE AND FINANCIAL MATHEMATICS.

OBJECTIVE:

To provide foundation in Finance and Financial Mathematics with simple applications.

Unit I: THE KEY PRINCIPLES OF FINANCE:

08 Hrs

Definitions of principal terms in investment and Asset management; Relationship between finance and real resources; between finance and organisation objectives; between stakeholders; role and effects of the capital markets, Agency Theory, theory of maximisation of shareholders wealth.

Unit II CASH FLOW MODELS:

10 hrs

Uses of a generalised cash flow model to describe finance transactions; inflows and outflows in cash flow process in each future time period; Amount and timing are fixed or uncertain, the operation of a zero coupon bond, fixed interest security, an index linked security, cash and deposit an equity, interest only loan, a property and an annuity certain in the cash flow model.

Unit III TIME VALUE OF MONEY:

12 Hrs

Concepts of simple interest, compound interest, and discounting; Definition of present value of a future payment, effect of compound interest; relationship between the rates of interest and discount; Difference between nominal and effective rates of interest; Meaning of real and money interest rates; Calculation of present value and the accumulated value. Discount and accumulate sum of money; Compound interest functions including annuities certain.

Loan Repayments: Repayment of loan by regular instalments and capital; Flat rates and annual effective rates of interest; Calculation of a schedule of repayment of a loan, Bifurcation interest and capital components.

Unit IV DISCOUNTED CASH FLOW TECHNIQUES:

12 Hrs

Meaning discounted cash flow uses of discounted cash flow techniques in investment project appraisal. Calculations of Net Present Value, Internal Rate Return, Weighted rate of return, Time weighted rate of return and the linked internal rate of return for cash flows of investment project or a fund. **Investment and Risk Characteristics:** Investment and risk characteristics for fixed interest, government borrowings, fixed interest borrowing, shares, derivative

Unit V: COMPOUND INTEREST PROBLEMS

14 Hrs

Elementary compound interest problems assuming tax free investor, calculations of present value of payments from a fixed interest security with constant coupon rate, and security is redeemable in one instalment, calculation of running yield and redemption yield; Present value or Yield calculations from an equity share, and a property with simple assumptions, about the growth of dividends and rents; Index linked bond present value calculation with assumptions about rate of inflation.

Term Structure interest Rates: Factors influencing the Term Structure Interest Rates; Meaning of par yield and yield to maturity; Meaning and calculation of discrete spot and forward rates.

SKILL DEVELOPMENT:

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BOOKS FOR REFERENCE:

- 1.

3.7 PUBLIC RELATIONS AND CORPORATE COMMUNICATION

OBJECTIVE

To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

10 Hrs

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – Ways to build positive attitude – Effects of negative attitude and measures to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hrs

Meaning of Vision – Doing things for the right purpose – Setting and achieving goals – Importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of Stress Management and Time Management.

Unit 3: CREATIVITY

10 Hrs

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

10 Hrs

Significance – Process of Communication – Forms of Communication - Communication Gap – Listening Skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparation for GD & Interview.

Unit 5: CAREER PLANNING

06Hrs

Career Planning, Awareness of different Careers, Sources of Information, Choosing a Career and Career counseling.

SKILL DEVELOPMENT:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise
- Role play.

BOOKS FOR REFERENCE:

1. C.S. Raydu – Corporate Communication, HPH
2. Rai & Rai Business Communication, HPH
3. S.P. Sharman, Bhavani H. – Corporate Communication, VBH
4. Collins: Public Speaking
5. Mair : Art of Public Speaking
6. K. Venkataramana, Corporate Communication, SHBP.
7. Rajkumar: Basic of Business Communication
8. V.N. Ahuja.: The World's Famous Speeches
9. Daniel Goleman : Emotional Intelligence
10. Jyotsna Codety :Understanding Emotional Intelligence .

11. Dalip Singh :Emotional Intelligence at Work .
12. B. Das / I Satpathy: Business Communication & Personality Development.
13. B.Husluck :Personality Development – Elizabeth.
14. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
15. Allen Bease :Body Language .
16. Tanushree Pooder :Fit and Fine Body and Mind
17. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
18. Partho Pratim Roy :Business Communications – The Basics
19. Sajitha Jayaprakash :Technical Communication

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour - Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

14 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Identification of elements of cost in services sector by Visiting any service sector.
- Cost estimation for the making of a proposed product.
- Draft the specimen of any two documents used in material account.
- Collection and Classification of overheads in an organization on the basis of functions.
- Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting , HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting , HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

7. P. K Sinha – Accounting & Costing for Managers.
8. M.L. Agarwal: Cost Accounting
9. Dr. Alice Mani: Cost Accounting, SBH.
10. S.P Jain & Narang: Cost Accounting , Kalyani
11. Palaniappan and Hariharan : Cost Accounting I.K. International Publishers
12. S.P. Iyengar: Cost Accounting, Sultan Chand ans Sons
13. S.N. Maheshwari: Cost Accounting, Vikas
14. M. N. Arora: Cost Accounting, HPH
15. Dutta: Cost Accounting
16. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.

4.5 E-BUSINESS AND ACCOUNTING

OBJECTIVE:

The objective of the subject is to familiarize the students with E- Commerce models and Tally

UNIT 1. E-BUSINESS

10 Hrs

Introduction, E-Commerce – Definition, History of E-commerce, Difference between E - Commerce and E - Business. Comparison of traditional commerce and e-commerce Advantages/ Disadvantages of e-commerce,. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. HARDWARE AND SOFTWARE FOR E-BUSINESS

10Hrs

Web server – Internet – World Wide Web - hardware and software for web servers, web hosting choices – shopping cart.

Unit 3: GETTING STARTED WITH TALLY

10Hrs

Meaning of Tally software – Features – Advantages - Required Hardware, Preparation for installation of tally software - installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, Other information, Company features and Inventory features.

Unit 4: CONFIGURING TALLY

16Hrs

General Configuration, Numerical symbols, accts/inv info – master configuration -voucher entry configuration. **Working in Tally:** Groups, Ledgers, writing voucher, different types of voucher, voucher entry Problem on Voucher entry -Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: REPORTS IN TALLY:

10Hrs

Generating Basic Reports in Tally – Financial Statements – Accounting Books and Registers – Inventory Books and Registers – Exception reports – printing reports – Types of Printing Configuration of Options – Printing Format.

SKILL DEVELOPMENT:

- Generating the report of journal
- Generating the report on cash book
- Generating the report on profit and losing account
- Generating the report on balance sheet

BOOKS FOR REFERENCE

1. Raydu – E Commerce, HPH
2. Suman. M – E Commerc & Accounting - HPH
3. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
4. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
5. Amrutha Gowry & Soundrajana, E – Business & Accounting, SHBP.
6. C.S.V Murthy- E Commerce, HPH
7. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
8. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
9. P. Diwan / S. Sharma – E – Commerce
10. Srivatsava: E.R.P, I.K. International Publishers
11. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
12. Tally for Enterprise Solutions

4.6. STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.

Unit: 1 AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of Commodities and Commodities Market, differences between stock market and commodities market.

Unit: 2 STOCK MARKET: 12Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: Meaning, types (in brief).

Unit:3 TRADING IN STOCK MARKET: 14Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL), Central Securities Depository Ltd.(CSDL) (in brief).

Unit: 4 COMMODITIES MARKET: 12Hrs

History, Membership, Objectives, Functions of commodities exchange, Organization and role of commodity exchange, Governing Body, Types of Transactions to be dealt in Commodity Market – physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit: 5 TRADING IN COMMODITY MARKETS: 08Hrs

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of volumes of Commodities

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of shares and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. K. Venkataramana, Stock & Commodity Markets, SHBP.
4. B. Kulkarni – Commodity Markets & Derivatives.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
7. Srivastava R.M ; Management of Indian Financial Institutions
8. Pallavi Modi : Equity – The Next Investment Destination
9. Prisswami – Indian Financial System
10. Ghowria Khatoon – Stock & Commodity Markets, VBH.

4.7 PRINCIPLES OF EVENT MANAGEMENT

OBJECTIVE:

The objective is to provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

Unit: 1- INTRODUCTION TO EVENT MANAGEMENT

12 Hrs

Event- Meaning- Why Event Management- Analysis of Event, Scope of Event, Decision Makers- Event Manager Technical Staff- Establishing of Policies & Procedure- Developing Record Keeping Systems.

Unit: 2-EVENT MANAGEMENT PROCEDURE

12 Hrs

Principles for holding an Event, General Details, Permissions- Policies, Government and Local Authorities, - Phonographic Performance License, Utilities- Five Bridge Ambulance Catering, Electricity, Water Taxes Applicable.

Unit: 3-CONDUCT OF AN EVENT.

12 Hrs

Preparing a Planning Schedule, Organizing Tables, Assigning Responsibility, Communication and Budget of Event- Checklist, Computer aided Event Management– Roles & Responsibilities of Event Managers for Different Events.

Unit: 4-PUBLIC RELATIONS

10 Hrs

Introductions to Public Relations- Concept- Nature- Importance- Limitations- Media- Types of Media- Media Management, Public Relation Strategy & Planning. Brain Storming Sessions- Writings for Public Relations.

Unit: 5 CORPORATE EVENTS

10 Hrs

Planning of Corporate Event, Job Responsibility of Corporate Events Organizer, Arrangements, Budgeting, Safety of Guests and Participants, Creating Blue Print, Need for Entertainment in Corporate Events And Reporting.

Skill Development

1. Preparation of Event Plan for Wedding, Annual general body Meeting of an MNC.
2. Preparing Budget for conduct of National level intercollegiate sports events.
3. Preparation of Event Plan for College day Celebrations
4. Preparation of Budget for Conducting inter collegiate Commerce Fest.

Book References

1. Event Entertainment and Production – Author: Mark Sonderm CSEP Publisher: Wiley & Sons, Inc.
2. Ghose Basha – Advertising & Media Mgt, VBH.
3. Anne Stephen – Event Management, HPH.
4. K. Venkataramana, Event Management, SHBP.
5. Special Event Production – Doug Matthews – ISBN 978-0-7506-8523-8
6. The Complete Guide to successful Event Planning – Shannon Kilkenny
7. Human Resource Management for Events – Lynn Van der Wagen (Author)
8. Successful Team Management (Paperback) – Nick Hayed (Author)
9. Event Management & Public Relations by Savita Mohan – Enkay Publishing House
10. Event Management & Public Relations By Swarup K. Goyal – Adhyayan Publisher - 2009

5.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE:

To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

12 Hrs

Meaning & Definition – Product Range - Capital Investment - Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

14 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, Technical, Market and Social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI - Non-financial assistance from DIC, SISI, AWAKE, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasanth Desai, Management of Small Scale Industry, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Dr. Venkataramana ; Entrepreneurial Development, SHB Publications

4. Udai Pareek and T.V. Rao, Developing Entrepreneurship
5. Rekha & Vibha – Entrepreneurship Development, VBH
6. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
7. B. Janakiraman , Rizwana M: Entrepreneurship Development, Excel Books
8. Srivastava, A Practical Guide to Industrial Entrepreneurs
9. Anil Kumar: Small Business and Entrepreneurship I.K. International Publishers
10. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
11. Bharusali, Entrepreneur Development
12. Satish Taneja ; Entrepreneur Development
13. Vidya Hattangadi ; Entrepreneurship
14. N.V.R Naidu : Entrepreneurship Development, I.K. International Publishers

5.2 INTERNATIONAL FINANCIAL REPORTING STANDARDS

OBJECTIVE: The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit-I

5Hrs

International Financial Reporting Standards:

Meaning of IFRS - relevance of IFRS to India; merits and limitations of IFRS; process of setting IFRS- Practical challenges in implementing IFRS; a brief theoretical study of International financial reporting standards (IFRS) 1 – 15 - List of International accounting standards issued by IASB.

Unit – II

25Hrs

Accounting for Assets and Liabilities

Recognition criteria's for Investment properties, Government grants, Borrowing costs, Construction contracts, share based payments, Provisions, Contingent liabilities and Contingent assets, Events occurring after the reporting period (**Only Theory**).

Recognition and measurement for property plant and equipment, Intangible assets, Inventories, Leases and Impairment. Accounting for Income tax, Employee benefits. - **Simple problems**

Unit-III

8Hrs

Presentation of Financial Statements:

Outline for the preparation of financial statements - Statement of financial position; Comprehensive income statement; Statement of changes in equity (SOCE), IAS 18 – Revenue.

Elements of financial statements as per IFRS – Non-current assets; current assets; equity; non-current liability; current liability; revenue; cost of sales; distribution costs; administrative expenses; financial costs – profits attributable to owners of controlling interest and non-controlling interest – **Practical problems on each element.**

Unit – IV

12Hrs

Accounts of Groups:

Concept of group – need for consolidated financial statements - Preparation of consolidated financial statements – Procedure for the preparation of consolidated financial position statement – treatment of pre-acquisition profit; goodwill arising on consolidation; on-controlling interests at fair value – **Practical problems.**

Unit – V

6Hrs

Disclosure Standards

Related party disclosure, Earnings per share, Interim financial reporting, Insurance contracts, Operating segments. (**Theory Only**).

SKILL DEVELOPMENT

- 1) Conversion of final accounts to IFRS
- 2) Analysis of published financial statements for at-least 2 types of stakeholders
- 3) Comments for recent developments/exposure draft in IFRS
- 4) Preparation of notes to accounts for non-current assets
- 5) Assignment on social reporting
- 6) Preparation of Consolidated Financial Statement of any two existing companies.
- 7) Disclosure of change in equity in the annual reports of any two select companies.

Books for reference:

1. IFRS – Student Study Guide - ISDC
2. IFRS for India, Dr.A.L.Saini, Snow white publications
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. IFRS explained – a guide to IFRS by BPP learning Media
5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited.
6. IFRS: A quick reference guide by Robert J Kirk, Elsevier Ltd.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provisions of Income Tax Act 1961 relating to computation of Income of individuals.

Unit 1: INTRODUCTION TO INCOME TAX **10 Hrs**

Brief History of Indian Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration – Theory Only) – Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O.

Unit 2: EXEMPTED INCOMES **04 Hrs**

Introduction – Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS **10 Hrs**

Residential Status of an Individual –Determination of Residential Status – Incidence of Tax – Problems.

Unit 4: INCOME FROM SALARY **20 Hrs**

Meaning – Definition - Basis of Charge– Advance Salary – Arrears of Salary – Allowances – Perquisites– Provident Fund - Profits in Lieu of Salary – Gratuity -Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 – Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY **12 Hrs**

Basis of Charge – Deemed Owners – Exempted Incomes from House Property –Composite Rent - Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax.
6. 7 Lectures – Income Tax – I, VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications.

5.4 COSTING METHODS

OBJECTIVE

To familiarize the students on the use of cost accounting system in different nature of businesses.

Unit 1: INTRODUCTION TO COSTING METHODS

04 Hrs

Costing methods – Meaning, Importance and Categories.

Unit 2: JOB AND BATCH COSTING

12 Hrs

Job costing: Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. **Batch costing:** Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.

Unit 3: PROCESS COSTING

14 Hrs

Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification - Joint and by-products costing – problems under reverse cost method.

Unit 4: CONTRACT COSTING

14 Hrs

Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts, Problems.

Unit 5: OPERATING COSTING

12 Hrs

Introduction, Meaning and application of Operating Costing, - Power house costing or boiler house costing, canteen or hotel costing, hospital costing (Theory only) and Transport Costing – Problems on Transport costing.

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Preparation of Imaginary composite job cost statement
- Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – *Cost Management*
11. Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
12. Anthony R. N. – *Management Accounting Principles*
13. S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
14. J. Made Gowda Cost Accounting
15. Rathnam : Cost Accounting

6.1 BUSINESS REGULATIONS

OBJECTIVE:

To introduce the students to various Business Regulations and familiarize them with common issues of relevance.

UNIT 1: INTRODUCTION TO BUSINESS LAWS

06 Hrs

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Laws.

UNIT 2: CONTRACT LAWS

18Hrs

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: COMPETITION AND CONSUMER LAWS:

14 Hrs

The Competition Act, 2002: Objectives of Competition Act, Features of Competition Act, CAT, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission.

UNIT 4: ECONOMIC LAWS

12 Hrs

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

UNIT 5: ENVIRONMENTAL LAW

06 Hrs

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE:

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, Recent Trends in Auditing: Nature & Significance of Tax Audit – Cost Audit - Management Audit.

Unit 2: INTERNAL CONTROL

10 Hrs

Internal Control: Meaning and objectives. Internal Check: Meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation– Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

10 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this subject is to make the students to understand the computation of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS OR PROFESSION **16 Hrs**

Meaning and Definition of Business, Profession – Vocation - Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS **16 Hrs**

Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F– Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES **10 Hrs**

Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME **06 Hrs**

Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 G, 80 GG, 80 GGA, and 80 U. (80 G & 80 GG together should not be given in one problem)

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS **08Hrs**

Meaning –Provision for Set-off & Carry forward of losses (Theory only).

Computation of Total Income and Tax Liability of an Individual Assessee (Problems– in case of income from salary & house property- computed income may be given).

SKILL DEVELOPMENT

- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
4. Gaur & Narang: Income Tax, Kalyani
5. B.B. Lal: Income Tax, Central Sales Tax Law & Practice, Konark Publisher (P) Ltd.
6. Singhania: Income Tax
7. Dr. H.C Mehrothra : Income Tax, Sahitya Bhavan
8. 7 Lecturer Income Tax – VBH

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

12 Hrs

Management Accounting: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.

UNIT2: RATIO ANALYSIS

14 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.

UNIT 3: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

UNIT 4: CASH FLOW ANALYSIS

14 Hrs

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents - Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of Ind AS-7 (old AS 3) – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind AS-7 (old AS 3) (Indirect Method Only).

UNIT 5: MANAGEMENT REPORTING

06 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

ELECTIVE GROUPS

1. FINANCE & ACTUARIAL STUDIES

5.5 STATISTICS & MODELS

OBJECTIVES:

To provide foundation in the aspects of statistics that is of relevance to actuarial work and in stochastic processes and survival models.

Unit I DISCRETE AND CONTINUOUS DISTRIBUTION:

10 Hrs

Definition and application of discrete distributions, geometric, binomial, negative binomial, Poisson and uniform of discrete distribution; Features of principal discrete and continuous distribution; Definition and application of the continuous distribution, normal, log normal, exponential, gamma, chi square, beta and uniform **Moment generating function: (MGF)** Moment generating function, cumulant generating function; simple cases of cumulants, and their uses to evaluate moments; Determination of moment generating function of random variable; Determination of cumulant moment generating function and the cumulants for random variable; Using the above variables, by expansion as a series or by differentiation as appropriate; Uses and application of the above function; Reasons for using the functions;

Unit II: THE CONCEPTS OF INDEPENDENCE, RANDOM VARIABLE AND CONDITIONAL DISTRIBUTIONS:

10 HRS

The use of generating functions to establish the distribution of linear combinations of independent random variables; Ascertain marginal distributions and conditional distributions from jointly distributed random variables; Definition of the probability function/density function of a marginal distribution and of a conditional distribution; Conditions under which random variables are independent; Calculation of the mean and variance of a function of two jointly distributed random variable, and the covariance and correlation coefficient between two variables; Determination of the probability function/density function of a function of independent random variables, using MGFs; Mean and variance of linear function of independent random variables;

Unit III: THE CENTRAL LIMIT THEOREM

12 Hrs

The concepts of random sampling, statistical inference and sampling distribution; the central limit theorem for a sequence of independent, identically distributed random variables; Application of the central limit theorem to establish normal approximations to other distributions, and to calculate probabilities; a continuity correction when using a normal approximation to a discrete distribution; Application of a continuity correction when using a normal approximation to a discrete distribution; Meaning of sample, a population and statistical inference; Definition of random sample from a distribution of a random variable; meaning of a statistic and its sampling distribution; Determination of the mean and variance of a sample mean and the mean of a sample variance in terms of the population mean, variance and sample size; Use of the basic sampling distributions for: - the sample mean where the population variance is know -the sample mean where the population variance is unknown - the sample variance for random samples from a population that follows a normal distribution.

Unit IV: METHODS OF ESTIMATION:**12 Hrs**

The main properties of estimators, and their application, the method of moments for constructing estimators of population parameters; Application of the method of moments for constructing estimators of population parameters; The method of maximum likelihood for constructing estimators of population parameters for exact data samples; Application of the method of maximum likelihood for constructing estimators of population parameters for exact data samples; Definition of the terms: efficiency, bias, consistency and mean squared error; Calculation of the bias and mean square error of an estimator and its use to compare estimators

Unit V: CONFIDENCE INTERVALS FOR UNKNOWN PARAMETERS**12 Hrs**

Definition of a confidence interval for an unknown parameter of a distribution based on a random sample; Calculation of a confidence interval for an unknown parameter using a given sampling distribution for example the mean and variance of a normal distribution; Calculation of confidence intervals for a binomial probability and a Poisson mean, using the normal approximation in both cases; Calculation of confidence intervals for two-sample situations involving either the normal distribution, or the normal approximation to the binomial and Poisson distributions **Testing hypotheses:** Meaning of the terms null and alternative hypotheses, simple and composite hypotheses, critical region, level of significance and probability-value of a test; Application of basic tests for the one-sample and two-sample situations involving the normal, binomial and Poisson distributions; Application of basic test for paired data, Test to test the random sample from a hypothesis including cases where parameters are unknown

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE:

1.

5.6 LONG-TERM ACTUARIAL MATHEMATICS

OBJECTIVE:

To provide basic knowledge in the mathematical techniques which can be used to model and value cash flows dependent on death, survival, or other uncertain risks arising in pensions and life insurance; (only gross premium and gross premium reserves are covered (net premium reserves are not required)).

Unit I: ACTUARIAL MODELING:

12 Hrs

The principles of Actuarial modelling; Reasons and techniques of using actuarial models; Benefits and limitations of modelling; Difference between a stochastic and deterministic model, Its advantages and disadvantages; Suitability of a model for any particular application; Difference between the short run and long run properties of a model; Analysis of potential output from a model and choice of model; Process of sensitivity testing of assumptions and its importance; Factors in communicating the results of the application of a model; **Stochastic Processes:** Definition of stochastic process and counting process; The general principles of stochastic processes, classification of stochastic processes, Stochastic interest rate models; Stochastic process in continuous or discrete time; continuous or a discrete state space and in mixed type; Application of mixed processes; Meaning of Markov Property in the context of a stochastic process; Concept of stochastic interest rate model and distinction between this and a deterministic model; Algebraically derivation of annual rates of return;

Unit II: MARKOV CHAIN PROCESSES:

14 Hrs

Features of a time homogeneous Markov chain model; Calculation of the stationary distribution for a Markov chain model in simple cases; System of frequency based experience rating in terms of a Markov chain model and simple applications; Use of Markov chains as a tool for modelling; **The Markov Jump Process;** Features of a Markov Jump Process Model, definition of time homogeneous and time inhomogeneous Markov jump process models of transitions between discrete states. Definition of the Poisson process, distribution of the number of events in a given time interval; Definition of the two state survival model, sickness models and examples multiple state models in terms of Markov jump processes. Definition of the jump chain model associated with a Markov jump process model and application of the results; Markov jump processes as a tool for modelling. **The random life time survival model:** Consistency condition between the random variable representing lifetimes from different ages; Definition of the distribution and density functions of the random future lifetime, the survival function, the force of mortality or hazard rate, and their relationships; Definitions of the actuarial symbols and integral formulae; Definition of the curtate future lifetime and the probability function; Definition of the expected value and variance of the complete and curtate future lifetimes and expressions for them. Definition of the symboise and an approximate relation between them; comparison of the random lifetime survival model with the two state Markov jump process survival model

Unit III: SIMPLE ASSURANCE AND ANNUITY CONTRACTS

10 Hrs

Simple assurance and Annuity contracts formulae for the mean and variance of the present value of payments, (assuming deterministic interest), Definition for the following terms: whole life assurance, Term assurance, Pure endowment, Endowment assurance, critical illness assurance, whole life level annuity, temporary level annuity, guaranteed level annuity, premium, Benefit(Including assurance and annuity contracts where the benefits are deferred), Definition of relevant probabilities with their select equivalents,

Determination of expressions in the form of sums for the expected present value of benefit payments under each of the above contracts, assuming that death benefits are payable at the end of the year of death and that annuity are paid annually in advance or in arrears. Simplification of these expressions into a form suitable for evaluation by table look-up or other means, Definition of the relevant symbols and their select and continuous equivalents, Application of the annuity factors for the above symbols to allow for the possibility that payments are more frequent than annual but less frequent than continuous, Different types of mortality table and their use including ways in which future improvements can be allowed for.

Unit IV: PRACTICAL METHODS OF EVALUATING THE EXPECTED VALUES OF SIMPLE ASSURANCE AND ANNUITY CONTRACTS **10 Hrs**

Life table functions and their select equivalents, Definition of life table probabilities, Definition of the expected values, Evaluation of the expected values by table look-up, Determination of the approximations for, and evaluation of the expected values **Gross premiums for Life insurance and annuity contracts:** Types of expenses incurred in writing a life insurance contract, Influence of inflation on the expenses, The premiums and reserves of simple insurance contracts, Calculation by using ultimate or select mortality, the premiums and reserves of simple insurance contracts, Definition of premiums for the insurance contract benefits, Calculation of premiums for the insurance contract benefits using the equivalence principle.

Unit V: GROSS PREMIUM RESERVES **10 Hrs**

The reasons for setting up of reserves, Prospective and retrospective reserves Definition and evaluation of prospective and retrospective reserves Calculation of gross premiums and gross premium reserves for increasing and decreasing benefits and annuities using ultimate or select mortality, Calculation of the expected present value of an annuity, premium, or benefit payable on death, which increases or decreases, Calculation of the expected present value of an annuity, premium or benefit payable on death, which increases or decreases by a constant monetary amount at various times. Calculation of premiums and reserves for contracts with premiums or benefits which increases or decreases by a constant monetary amount at various times, and benefits payable on death, Definition of with profits contract. Different types of bonus payable to with profits contracts. Calculation of premiums and reserves for with profits contracts

SKILL DEVELOPMENT:

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BOOKS FOR REFERENCE:

- 1.

6.5 SHORT TERM ACTUARIAL MATHEMATICS

OBJECTIVE

To provide further knowledge in the mathematical and statistical techniques of particular relevance to non-life insurance.

Unit I: TECHNIQUES OF DISCOUNTING EMERGING COSTS

8 Hrs

Techniques of discounting emerging costs for use in pricing, reserving, and assessing profitability, Features of a unit-linked contract, Evaluation of expected cash flows for whole life, endowment and term assurances, annuities, and unit-linked contracts, Application of a profit test to simple annual premium contracts to determine the profit vector, the net present value, and the profit margin, Method of using the profit test to price a product, and to determine non-unit reserves for unit-linked contracts

Unit II: THE FORMS OF HETEROGENEITY

14 Hrs

The principal forms of heterogeneity within a population and the ways in which selection can occur; the factors that contribute to the variation in mortality and morbidity, (specifically: Occupation, Nutrition, Housing, Climate/ Geography, Education, Genetics;) Definition of the following forms of selection: Temporary initial selection, Class selection, Time selection, Spurious selection, Adverse selection, How selection can be expected to occur amongst individuals taking out each of the main types of life insurance contracts, or amongst members of large pension schemes, How decrements can have a selective effect, The necessity of different mortality tables for different classes of lives, The theoretical basis of the use of risk classification in life insurance, The impact of the availability of genetic information on risk classification in life insurance, The concept of a single figure index and its advantages and disadvantages for summarizing and comparing actual experience, Definition, and illustration for the use of the terms: crude mortality rate, directly standardized and indirectly standardized mortality rate, standardized mortality ratio.

Unit III: PROBABILITIES AND MOMENTS OF LOSS DISTRIBUTION

14 Hrs

Probabilities and Moments of loss distribution both with and without limits and risk-sharing arrangements, The properties of the statistical distributions which are suitable for modelling individual and aggregate losses, Estimation of the parameters of a failure time or loss distribution when the data is complete, or when it is incomplete, using maximum likelihood and the method of moments, Application of the principles of statistical inference to select suitable loss distributions for sets of claims Definition of moments and moment generating functions of loss distributions including the gamma, exponential, Pareto, generalised Pareto, normal, lognormal and Weibull distributions, The concepts of excesses (deductibles), and retention limits, The operation of simple forms of proportional and excess of loss reinsurance, Calculation of the moments of the claim amounts paid by the insurer and the reinsurer in the presence of excesses and reinsurance

Unit IV: RISK MODELS

10 Hrs

Risk models involving frequency and severity distributions, Determination of models appropriate for short term insurance contracts in terms of the numbers of claims and the amounts of individual claims, The major simplifying assumptions underlying the models, Deriving the moment generating function of the sum of N independent random variables; in particular when N has a binomial, Poisson, geometric or negative binomial distribution, Definition of a compound Poisson distribution and apply the fact that the sum of independent random variables each having a compound Poisson distribution also has a compound Poisson distribution, Calculation of the mean and variance for compound binomial, compound Poisson and compound negative binomial random variables and derive the

coefficient of skewness for the compound Poisson case and make a comment on the sign of the skewness in the other case,

Unit V:

10 Hrs

Derive formulae for the moment generating functions and moments of aggregate claims over a given time period for the models in terms of the corresponding functions for the distributions of claim numbers and claim amounts, stating the mathematical assumptions underlying these formulae, Calculation of the mean and variance for compound binomial, compound Poisson and compound negative binomial random variables for both the insurer and the reinsurer after the operation of simple forms of proportional and excess of loss reinsurance and derive the coefficient of skewness for the compound Poisson case and make a comment on the sign of the skewness in the other case.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.

6.6 MODELS AND AUDIT TRAILS

OBJECTIVE

To ensure that the successful candidate can model data, including

Unit I: RUIN

10 Hrs

Meaning of the aggregate claim process and the surplus process for a risk, Calculation of probabilities of the number of events in a given time Interval and waiting times using the Poisson process and the distribution of inter-event times to probabilities, Calculation by using the Poisson process and distribution of inter-event times, probabilities involving waiting times and the number of events in a given time interval.

Unit II ADJUSTMENT CO EFFICIENT

14 Hrs

Definition and calculation of the adjustment coefficient for a compound Poisson process in simple cases, Definition of the probability of ruin in infinite/finite and continuous/discrete time, Relationships between the different probabilities of ruin, Lundberg's inequality, The significance of the adjustment coefficient in Lundberg's inequality, The effect on the probability of ruin, in both finite and infinite time, of changing parameter values, The effect on the adjustment coefficient and on the probability of ruin of simple reinsurance arrangements.

Unit III: TECHNIQUES FOR ANALYZING A RUN-OFF (OR DELAY)

16 Hrs

Techniques for analysing a run-off (or delay) triangle and projecting the ultimate position, Use of a statistical model to underpin a run-off triangles approach, Definition of a development factor, Use of a set of assumed development factors to project the future development of a run-off triangle, Application of the basic chain ladder method for completing the run-off triangle, Adjustment of the basic chain ladder method to make explicit allowance for inflation, Alternative ways for deriving development factors appropriate for completing the run-off triangle, Application of average cost per claim method for estimating outstanding claim amounts, Application of the Bornhuetter-Ferguson methods for estimating outstanding claim amounts, The assumptions underlying the chain ladder, average cost per claim.

UNIT IV: DEVELOPMENT OF SPREAD SHEET MODEL

16 Hrs

Development of a spreadsheet model to solve a specified problem; summarizing data using appropriate descriptive statistics and graphical representation, Performing checks on the data and results, Production of an audit trail, documenting: the parameters given in the scenario, the methods used in the model, checks made on the data and results

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.



BANGALORE UNIVERSITY

*B.Com. LOGISTICS & SUPPLY CHAIN MANAGEMENT (CBCS)
DEGREE SEMESTER SCHEME SYLLABUS 2017 – 2018*

DEPARTMENT OF COMMERCE

Central College Campus, Bengaluru – 560 001.

REGULATIONS PERTAINING TO B.COM LOGISTICS & SUPPLY CHAIN MANAGEMENT
(CBCS) DEGREE SEMESTER SCHEME 2017 - 18

I. OBJECTIVES :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in {B.Com, (Logistics & Supply Chain Management)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII.SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has

submitted the prescribed application for the examination along with the required fees to the university.

- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
B.COM LOGISTICS & SUPPLY CHAIN MANAGEMENT (CBCS) SEMESTER SCHEME --
2017 – 18
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	1.1	4	3	20	80	100	2
	Language – II : English	1.2	4	3	20	80	100	2
Part 2 Optional	Financial Accounting	1.3	4	3	30	70	100	2
	Indian Financial System	1.4	4	3	30	70	100	2
	Marketing and Services Management	1.5	4	3	30	70	100	2
	Introduction to Logistics and Supply Chain Management	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	2.1	4	3	20	80	100	2
	Language – II : English	2.2	4	3	20	80	100	2
Part 2 Optional	Advanced Financial Accounting	2.3	4	3	30	70	100	2
	Retail Management	2.4	4	3	30	70	100	2
	Banking Law and Operations	2.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions – I	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: I Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3.1	4	3	30	70	100	2
	Language – II:English	3.2	3	3	30	70	100	2
Part 2 Optional	Corporate Accounting	3.3	4	3	30	70	100	2
	Financial Management	3.4	4	3	30	70	100	2
	Business Ethics	3.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions –II	3.6	4	3	30	70	100	2
	Public Relations and Corporate Communication	3.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	4.1	4	3	30	70	100	2
	Language – II: English	4.2	3	3	30	70	100	2
Part 2 Optional	Advanced Corporate Accounting	4.3	4	3	30	70	100	2
	Cost Accounting	4.4	4	3	30	70	100	2
	E-Business and Accounting	4.5	4	3	30	70	100	2
	Stock and Commodity Markets	4.6	4	3	30	70	100	2
	Principles of Event Management	4.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurship Development	5.1	4	3	30	70	100	3
	International Financial Reporting Standards	5.2	4	3	30	70	100	3
	Income Tax – I	5.3	4	3	30	70	100	3
	Costing Methods	5.4	4	3	30	70	100	3
	Business Environment for Logistics & Supply Chain	5.5	4	3	30	70	100	3
	Sourcing for Logistics & Supply Chain	5.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Business Regulations	6.1	4	3	30	70	100	3
	Principles and Practice of Auditing	6.2	4	3	30	70	100	3
	Income Tax – II	6.3	4	3	30	70	100	3
	Management Accounting	6.4	4	3	30	70	100	3
	Contract & Business Negotiation for Purchasing & Supply	6.5	4	3	30	70	100	3
	Managing Procurement Contracts & Relationship	6.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM 12 Hrs

Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hrs

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).

Unit 4: ROYALTY ACCOUNTS

12 Hrs

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY 12 Hrs

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- List out Various Accounting Standards
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interestwith imaginary figures under Hire Purchase System.

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

14 Hrs

Types of Banking and Non-Banking Financial Institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Mutual Funds – features and types.

Unit 3: COMMERCIAL BANKS

10 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

10 Hrs

Reserve Bank of India (RBI) – Organization – Objectives – Role and Functions. The Securities Exchange Board of India (SEBI) – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

10 Hrs

Meaning & Definition – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance - housing & vehicle finance.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Markets.
- Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE:

The objective is to familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services

Unit 1: INTRODUCTION TO MARKETING

10Hrs

Meaning and definition - Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing. Recent Trends in Marketing - e-business – Tele-marketing – M-Business – Green Marketing – Retailing, Relationship Marketing – Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT

12Hrs

Meaning – demographic- economic – natural – technological – political – legal – socio cultural environment. Market Segmentation and Consumer Behaviour - Meaning & Definition - Bases of Market Segmentation – Consumer Behaviour – Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX

16Hrs

Meaning – elements – PRODUCT – product mix, product line – product life cycle – product planning – new product development – branding - packing and packaging. PRICING – factors influencing pricing, methods of pricing (only Meaning), and pricing policy - PHYSICAL DISTRIBUTION, Meaning, factors affecting channels, types of marketing channels, PROMOTION –Meaning and significance of promotion – personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICES MANAGEMENT

10Hrs

Meaning of services – characteristics of services – classification of services – marketing mix in service industry – growth of service sector in India. Service processes – Designing the service process – service blueprint – back office & front office process.

UNIT 5: SERVICE SECTOR MANAGEMENT

08 Hrs

Tourism and Travel Services – concept, nature, significance and marketing. Health Care services – concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a new product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition – Financial Service in India.
2. Philip Kotler - Marketing Management, PHI
3. Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
4. Sunil B. Rao - Marketing & Services Mgt – HPH.
5. Dr. Alice Mani: Marketing & Services Management, SBH.
6. J.C. Gandhi - Marketing Management, TMH
7. Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH

8. Jayachandran ; Marketing Management. Excel Books.
9. K. Venkatramana, Marketing Management, SHBP.
10. P N Reddy & Appanniah, Essentials of Marketing Management, HPH
11. Sontakki, Marketing Management, HPH
12. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
13. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
14. K. Karunakaran; Marketing Management, HPH.
15. Davar: Marketing Management.

1.6. INTRODUCTION TO LOGISTICS AND SUPPLY CHAIN MANAGEMENT

OBJECTIVE

Unit – 1: INTRODUCTION TO SUPPLY CHAIN MANAGEMENT

08 Hrs

Meaning, Definitions, Features, Functions, Objectives & Significance of Logistics. Meaning and Definitions of Supply Chains, Supply Chain Management and Supply Chain Networks.

UNIT – 2 PROCUREMENT

16 Hrs

Meaning and Definitions of Procurement, Purchasing and Supply. Distinctions between procurement and purchasing. Organizational costs involved in procurement of goods and services. Stock & Non Stock procurements. Direct & Indirect Procurements. Capital & Operational Expenditures. Service Procurements.

UNIT – 3 SOURCING

12 Hrs

Meaning and Definitions of Sourcing. Generic Sourcing Process. Stages of Generic Sourcing Process. Distinctions between pre-contract and post-contract award stages. Structured Sourcing Process. Need for Structured Sourcing Process.

UNIT – 4 PROCUREMENT POLICIES

12 Hrs

Policies and Procedures for Procurement. Procurement Strategies. Procurement Manuals. Levels of delegated authority, Invoice clearance and payment. Structures of Procurement function – consortium structures, shared services, lead buyer structures, outsourced structures.

UNIT – 5 PROCUREMENT TECHNOLOGY

08 Hrs

IT systems in procurement – e-requisitioning, e-catalogues, e-ordering, e-sourcing, e-payment technologies and their impact on purchase to pay (P2P) systems. Enterprise Resource Planning (ERP) technologies. Codes of ethics in procurement - The CIPS code of ethics.

SKILL DEVELOPMENT

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Reference Books:

1. S. Chopra and P. Meindl, Supply Chain Management, Prentice Hall, 2010 (4th Edition)
2. Rahul V. Altekar, 'Supply Chain Management- Concepts and Cases'; Prentice Hall of India, Latest edition
3. R.B. Handfield and E.L. Nochols, Jr. Introduction to Supply Chain Management. Prentice Hall, 1999
4. Sunil Chopra and Peter Meindel. Supply Chain Management: Strategy, Planning, and Operation, Prentice Hall of India, 2002
5. Donald Waters, Logistics An Introduction to Supply Chain Management, PALGRAVE MACMILLAN, New York
6. Dr. Martin Khan, Sales & Distribution Management
7. Sunil Chopra & Peter Meinden, Supply Chain Management

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE :

The objective of this subject is to acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.

Unit 1: INSURANCE CLAIMS

12 Hrs

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 2: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction – Meaning – Consignor – Consignee – Goods Invoiced at Cost Price – Goods Invoiced at Selling Price – Normal Loss – Abnormal Loss – Valuation of Stock – Stock Reserve – Journal Entries – Ledger Accounts in the books of Consignor and Consignee.

Unit 3: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction – Meaning – Objectives – Distinction between joint venture and consignment – Distinction between joint venture and partnership – maintenance of accounts in the books of co-venturers – maintaining separate books for joint venture – preparation of memorandum joint venture - problems.

Unit 4: BRANCH ACCOUNTS

10 Hrs

Introduction – Meaning – Objectives – Types of Branches - Dependent Branches – Features – Supply of Goods at Cost Price - Invoice Price – Branch Account in the books of Head Office (Debtors System Only).

Unit 5 : DEPARTMENTAL ACCOUNTS

10 Hrs

Meaning, Objectives, basis of allocation of expenses, Trading and Profit and Loss Account in Columnar form – (Excluding Inter Departmental Transfers at invoice price)

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- List out the basis of Allocation of Departmental Expenses.
- Preparation of Consignment account with imaginary figures
- Preparation of Joint accounts with imaginary figures

BOOKS FOR REFERENCE:

1. Arulanandam & Raman; Advanced Accountancy, HPH
2. Anil Kumar – Advanced Financial Accounting HPH
3. Dr. Alice Mani: Advanced Financial Accounting, SBH.
4. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
5. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
6. Souandrajan & K. Venkataramana, Financial Accounting, SHBP.
7. A Bannerjee; Financial Accounting.
8. Radhaswamy and R.L. Gupta, Advanced Accounting , Sultan Chand
9. M.C. Shukla and Grewel, Advanced Accounting , S Chand

2.4 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAIL BUSINESS **10 Hrs.**

Definition – functions of retailing - types of retailing – forms of retail business ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario. International perspective in retail business.

Unit 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS **12 Hrs.**

Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction. Retail planning process: Factors to consider in preparing a business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS **10 Hrs.**

Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising, Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.

Unit 4: RETAIL MARKETING MIX **16 Hrs.**

Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal Methods.

Unit 5: IMPACT OF INFORMATION TECHNOLOGY IN RETAILING **08 Hrs.**

Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing.

SKILL DEVELOPMENT

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing
- List out the Factors Influencing in the location of a New Retail outlet.

BOOKS FOR REFERENCE

1. Suja Nair; Retail Management, HPH
2. Karthic – Retail Management, HPH
3. S.K. Poddar & others – Retail Management, VBH.
4. R.S Tiwari ; Retail Management, HPH

5. Barry Bermans and Joel Evans: "Retail Management – A Strategic Approach", 8th edition, PHI/02
6. A.J.Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
7. Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
8. K. Venkataramana, Retail Management, SHBP.
9. James R. Ogden & Denise T.: Integrated Retail Management
10. A Sivakumar : Retail Marketing , Excel Books
11. Ogden : Biztantra, 2007
12. Levy & Weitz : Retail Management -TMH 5th Edition 2002
13. Rosemary Varley, Mohammed Rafiq-: Retail Management
14. Chetan Bajaj : Retail Management -Oxford Publication.
15. Uniyal &Sinha : Retail Management - Oxford Publications.
16. Araif Sakh ; Retail Management

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

10 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

10 Hrs

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special Relationships.

Unit 3: BANKING OPERATIONS

18 Hrs

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course - Statutory Protection to Collecting Banker

Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques.

Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

12Hrs

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P. Srivastava ; Banking Theory & Practice, Anmol Publications
3. M. Prakhas, Bhargabhi R: Banking law & Operation, Vision Book House.
4. Tannan M.L: Banking Law and Practice in India, Indian Law House
5. Sheldon H.P: Practice and Law of Banking.
6. K. Venkataramana, Banking Operations, SHBP.
7. Kothari N. M: Law and Practice of Banking.
8. Neelam C Gulati: Principles of Banking Management.
9. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
10. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
11. S. Vipradas & j. K Syan: Bank Lending
12. Gajendra & Poddar : Law and Practice of Banking
13. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS-I

OBJECTIVE

The objective is to provide basic knowledge of statistics and their application to business situations.

Unit 1: INTRODUCTION TO STATISTICS

03Hrs

Meaning and Definition – Functions – Scope – Limitations.

Unit 2: CLASSIFICATION AND TABULATION OF DATA

08 Hrs

Collection of data - census and sample techniques. Classification of data, preparation of frequency distribution and tabulation of data.

Unit 3: MEASURES OF CENTRAL TENDENCY

20Hrs

Meaning and Definition Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (excluding missing frequency problems). Graphical representation of median and mode – Ogive– curve, histogram, smoothed frequency curve and frequency polygon.

Unit 4: MEASURES OF DISPERSION AND SKEWNESS

15 hrs

Meaning & Definition -Range, Quartile Deviation, Mean Deviation Standard Deviation and Co-efficient of Variation. Skewness: Meaning, uses, and problems on Karl Pearson's' Co-efficient of skewness.

Unit 5: INDEX NUMBERS

10 Hrs

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (including TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

- Draw a blank table showing different attributes
- Collect marks scored 50 students in a examinations and prepare a frequency distributions table
- Collect data relating to prices of shares of two companies for ten days and ascertain which companies shares prices is more stable
- Collect the run scored by the two batsmen in ten one day international cricket matches, find who is better run getter and who more consistence.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate Cost of Living Index.

BOOKS FOR REFERENCE

1. Anand Sharma : Statistics For Management, HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. D.P Apte ; Statistical Tools for Managers.
4. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
5. S.C Gupta: Business Statistics, HPH
6. N.V.R Naidu : Operation Research I.K. International Publishers
7. Ellahance : Statistical Methods, Kitab Mehel.
8. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
9. Veerachamy: Operation Research I.K. International Publishers
10. S. Jayashankar: Quantitative Techniques for Management.
11. Chikoddi & Satya Prasad : Quantitative Analysis for Business Decision, HPH
12. Dr. Alice Mani: Quantitative Analysis for Business Decisions - I, SBH.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES

08 Hrs

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries).

Unit 2: PROFIT PRIOR TO INCORPORATION

12 Hrs

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL

08 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems.

Unit 4: VALUATION OF SHARES

08 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per 2011 revised format)

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect Prospectus of a company and identify its salient features.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the intrinsic value of shares
- Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION

12 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

16 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function of a company.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Capital structure analysis of companies in different industries
- Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
4. G. Sudarshan Reddy, Financial Management, HPH
5. Roy – Financial Management, HPH
6. Khan and Jain, Financial Management, TMH
7. S. Bhat- Financial Management.
8. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
9. I M Pandey, Financial Management. Vikas Publication.
10. Prasanna Chandra, Financial Management, TMH
11. P.K Simha – Financial Management.
12. M. Gangadhar Rao & Others , Financial management
13. Dr. Alice Mani: Financial Management, SBH.

3.5 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS

12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS

12 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT

12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS

12 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE

12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

3.6 QUANTATIVE ANALYSIS FOR BUSINESS DECISIONS-II

OBJECTIVE:

The objective is to familiarize the students with various statistical techniques for their application in Business Decisions.

Unit 1: CORRELATION AND REGRESSION ANALYSIS

20 Hrs

Correlation: Meaning and Definition - Uses – Types – Karl Pearson's coefficient of correlation – probable error - Spearman's Rank Correlation Coefficient. Regression: Meaning, Uses, Regression lines, Regression Equations. Correlation Coefficient through Regression Coefficient

Unit 2: TIME SERIES

12 Hrs

Introduction – Meaning – Uses – Components of Time Series – Fitting a straight line trend by the method of least squares and Computation of Trend Values (when $\sum X = 0$) including Graphical presentation of trend values – Problems.

Unit 3: INTERPOLATION AND EXTRAPOLATION

08 Hrs

Meaning - Significance – Assumptions - Methods of Interpolation – Binomial expansion (Interpolating method one and two missing values only) - Newton's Advancing Differences Method - Problems.

Unit 4: SAMPLING AND SAMPLING DISTRIBUTION

08 Hrs

Meaning, Objectives and Types : Probability Sampling and Non-Probability Sampling Techniques- Meaning of Population, Parameter and Statistic - Sampling distribution – Meaning and usefulness of Standard Error (Simple Problems on calculation of Sample size)

Unit 5: THEORY OF PROBABILITY

08 Hrs

Meaning and Importance of Probability- Experiment, Event and types of events, Addition Theory of probability. (Simple Problems on addition theorem only)

SKILL DEVELOPMENT:

- Collect age statistics of 10 newly married couples and compute correlation coefficient
- Collect age statistics of 10 newly married couples and compute regression equations; Estimate the age of bride when age of bridegroom is given.
- Collect the turnover of a company for 7 years and predict the sales of 8th year by using method of least square.
- Collect the sales or production statistics of a company for five years and extrapolate the production or sales for the 6th Year.

BOOKS FOR REFERENCE:

1. Sridhara Bhatt - Quantitative Techniques for Managers , HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. B. G. Bhaskara & others: Quantitative Analysis for Business Decision II
4. S C Gupta and V K Kapoor, Fundamentals of Mathematical Statistics
5. Sancheti and Kapoor, Sultan Chand
6. S. Jaishankar: Quantitative Techniques for Managers
7. G C Beri, Statistics for Management.

8. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
9. Veerachamy: Operation Research I.K. International Publishers
10. Ellahance : Statistical Methods
11. Quantitative Techniques for Managerial Decisions, U K Srivastava, G V Shenoy,
12. S C Sharama, New Age International Publishers.
13. C.R Reddy , Quantitative Techniques for Management Decisions
14. Dr. Alice Mani: Quantitative Analysis for Business Decisions - II, SBH.

3.7 PUBLIC RELATIONS AND CORPORATE COMMUNICATION

OBJECTIVE

To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

10 Hrs

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – Ways to build positive attitude – Effects of negative attitude and measures to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hrs

Meaning of Vision – Doing things for the right purpose – Setting and achieving goals – Importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of Stress Management and Time Management.

Unit 3: CREATIVITY

10 Hrs

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

10 Hrs

Significance – Process of Communication – Forms of Communication - Communication Gap – Listening Skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparation for GD & Interview.

Unit 5: CAREER PLANNING

06Hrs

Career Planning, Awareness of different Careers, Sources of Information, Choosing a Career and Career counseling.

SKILL DEVELOPMENT:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise
- Role play.

BOOKS FOR REFERENCE:

1. C.S. Raydu – Corporate Communication, HPH
2. Rai & Rai Business Communication, HPH
3. S.P. Sharman, Bhavani H. – Corporate Communication, VBH
4. Collins: Public Speaking
5. Mair : Art of Public Speaking
6. K. Venkataramana, Corporate Communication, SHBP.
7. Rajkumar: Basic of Business Communication
8. V.N. Ahuja.: The World's Famous Speeches
9. Daniel Goleman : Emotional Intelligence
10. Jyotsna Codety :Understanding Emotional Intelligence .

11. Dalip Singh :Emotional Intelligence at Work .
12. B. Das / I Satpathy: Business Communication & Personality Development.
13. B.Husluck :Personality Development – Elizabeth.
14. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
15. Allen Bease :Body Language .
16. Tanushree Pooder :Fit and Fine Body and Mind
17. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
18. Partho Pratim Roy :Business Communications – The Basics
19. Sajitha Jayaprakash :Technical Communication

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour - Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

14 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Identification of elements of cost in services sector by Visiting any service sector.
- Cost estimation for the making of a proposed product.
- Draft the specimen of any two documents used in material account.
- Collection and Classification of overheads in an organization on the basis of functions.
- Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting , HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting , HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

7. P. K Sinha – Accounting & Costing for Managers.
8. M.L. Agarwal: Cost Accounting
9. Dr. Alice Mani: Cost Accounting, SBH.
10. S.P Jain & Narang: Cost Accounting , Kalyani
11. Palaniappan and Hariharan : Cost Accounting I.K. International Publishers
12. S.P. Iyengar: Cost Accounting, Sultan Chand ans Sons
13. S.N. Maheshwari: Cost Accounting, Vikas
14. M. N. Arora: Cost Accounting, HPH
15. Dutta: Cost Accounting
16. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.

4.5 E-BUSINESS AND ACCOUNTING

OBJECTIVE:

The objective of the subject is to familiarize the students with E- Commerce models and Tally

UNIT 1. E-BUSINESS

10 Hrs

Introduction, E-Commerce – Definition, History of E-commerce, Difference between E - Commerce and E - Business. Comparison of traditional commerce and e-commerce Advantages/ Disadvantages of e-commerce,. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. HARDWARE AND SOFTWARE FOR E-BUSINESS

10Hrs

Web server – Internet – World Wide Web - hardware and software for web servers, web hosting choices – shopping cart.

Unit 3: GETTING STARTED WITH TALLY

10Hrs

Meaning of Tally software – Features – Advantages - Required Hardware, Preparation for installation of tally software - installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, Other information, Company features and Inventory features.

Unit 4: CONFIGURING TALLY

16Hrs

General Configuration, Numerical symbols, accts/inv info – master configuration -voucher entry configuration. **Working in Tally:** Groups, Ledgers, writing voucher, different types of voucher, voucher entry Problem on Voucher entry -Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: REPORTS IN TALLY:

10Hrs

Generating Basic Reports in Tally – Financial Statements – Accounting Books and Registers – Inventory Books and Registers – Exception reports – printing reports – Types of Printing Configuration of Options – Printing Format.

SKILL DEVELOPMENT:

- Generating the report of journal
- Generating the report on cash book
- Generating the report on profit and losing account
- Generating the report on balance sheet

BOOKS FOR REFERENCE

1. Raydu – E Commerce, HPH
2. Suman. M – E Commerc & Accounting - HPH
3. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
4. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
5. Amrutha Gowry & Soundrajana, E – Business & Accounting, SHBP.
6. C.S.V Murthy- E Commerce, HPH
7. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
8. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
9. P. Diwan / S. Sharma – E – Commerce
10. Srivatsava: E.R.P, I.K. International Publishers
11. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
12. Tally for Enterprise Solutions

4.6. STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.

Unit: 1 AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of Commodities and Commodities Market, differences between stock market and commodities market.

Unit: 2 STOCK MARKET: 12Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: Meaning, types (in brief).

Unit:3 TRADING IN STOCK MARKET: 14Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL), Central Securities Depository Ltd.(CSDL) (in brief).

Unit: 4 COMMODITIES MARKET: 12Hrs

History, Membership, Objectives, Functions of commodities exchange, Organization and role of commodity exchange, Governing Body, Types of Transactions to be dealt in Commodity Market – physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit: 5 TRADING IN COMMODITY MARKETS: 08Hrs

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of volumes of Commodities

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of shares and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. K. Venkataramana, Stock & Commodity Markets, SHBP.
4. B. Kulkarni – Commodity Markets & Derivatives.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
7. Srivastava R.M ; Management of Indian Financial Institutions
8. Pallavi Modi : Equity – The Next Investment Destination
9. Prisswami – Indian Financial System
10. Ghowria Khatoon – Stock & Commodity Markets, VBH.

4.7 PRINCIPLES OF EVENT MANAGEMENT

OBJECTIVE:

The objective is to provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

Unit: 1- INTRODUCTION TO EVENT MANAGEMENT

12 Hrs

Event- Meaning- Why Event Management- Analysis of Event, Scope of Event, Decision Makers- Event Manager Technical Staff- Establishing of Policies & Procedure- Developing Record Keeping Systems.

Unit: 2-EVENT MANAGEMENT PROCEDURE

12 Hrs

Principles for holding an Event, General Details, Permissions- Policies, Government and Local Authorities, - Phonographic Performance License, Utilities- Fire Bridge Ambulance Catering, Electricity, Water Taxes Applicable.

Unit: 3-CONDUCT OF AN EVENT.

12 Hrs

Preparing a Planning Schedule, Organizing Tables, Assigning Responsibility, Communication and Budget of Event- Checklist, Computer aided Event Management– Roles & Responsibilities of Event Managers for Different Events.

Unit: 4-PUBLIC RELATIONS

10 Hrs

Introductions to Public Relations- Concept- Nature- Importance- Limitations- Media- Types of Media- Media Management, Public Relation Strategy & Planning. Brain Storming Sessions- Writings for Public Relations.

Unit: 5 CORPORATE EVENTS

10 Hrs

Planning of Corporate Event, Job Responsibility of Corporate Events Organizer, Arrangements, Budgeting, Safety of Guests and Participants, Creating Blue Print, Need for Entertainment in Corporate Events And Reporting.

Skill Development

1. Preparation of Event Plan for Wedding, Annual general body Meeting of an MNC.
2. Preparing Budget for conduct of National level intercollegiate sports events.
3. Preparation of Event Plan for College day Celebrations
4. Preparation of Budget for Conducting inter collegiate Commerce Fest.

Book References

1. Event Entertainment and Production – Author: Mark Sonderm CSEP Publisher: Wiley & Sons, Inc.
2. Ghose Basha – Advertising & Media Mgt, VBH.
3. Anne Stephen – Event Management, HPH.
4. K. Venkataramana, Event Management, SHBP.
5. Special Event Production – Doug Matthews – ISBN 978-0-7506-8523-8
6. The Complete Guide to successful Event Planning – Shannon Kilkenny
7. Human Resource Management for Events – Lynn Van der Wagen (Author)
8. Successful Team Management (Paperback) – Nick Hayed (Author)
9. Event Management & Public Relations by Savita Mohan – Enkay Publishing House
10. Event Management & Public Relations By Swarup K. Goyal – Adhyayan Publisher - 2009

5.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE:

To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

12 Hrs

Meaning & Definition – Product Range - Capital Investment - Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

14 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, Technical, Market and Social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI - Non-financial assistance from DIC, SISI, AWAKE, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasanth Desai, Management of Small Scale Industry, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Dr. Venkataramana ; Entrepreneurial Development, SHB Publications

4. Udai Pareek and T.V. Rao, Developing Entrepreneurship
5. Rekha & Vibha – Entrepreneurship Development, VBH
6. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
7. B. Janakiraman , Rizwana M: Entrepreneurship Development, Excel Books
8. Srivastava, A Practical Guide to Industrial Entrepreneurs
9. Anil Kumar: Small Business and Entrepreneurship I.K. International Publishers
10. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
11. Bharusali, Entrepreneur Development
12. Satish Taneja ; Entrepreneur Development
13. Vidya Hattangadi ; Entrepreneurship
14. N.V.R Naidu : Entrepreneurship Development, I.K. International Publishers

5.2 INTERNATIONAL FINANCIAL REPORTING STANDARDS

OBJECTIVE: The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit-I

5Hrs

International Financial Reporting Standards:

Meaning of IFRS - relevance of IFRS to India; merits and limitations of IFRS; process of setting IFRS- Practical challenges in implementing IFRS; a brief theoretical study of International financial reporting standards (IFRS) 1 – 15 - List of International accounting standards issued by IASB.

Unit – II

25Hrs

Accounting for Assets and Liabilities

Recognition criteria's for Investment properties, Government grants, Borrowing costs, Construction contracts, share based payments, Provisions, Contingent liabilities and Contingent assets, Events occurring after the reporting period (**Only Theory**).

Recognition and measurement for property plant and equipment, Intangible assets, Inventories, Leases and Impairment. Accounting for Income tax, Employee benefits. - **Simple problems**

Unit-III

8Hrs

Presentation of Financial Statements:

Outline for the preparation of financial statements - Statement of financial position; Comprehensive income statement; Statement of changes in equity (SOCE), IAS 18 – Revenue.

Elements of financial statements as per IFRS – Non-current assets; current assets; equity; non-current liability; current liability; revenue; cost of sales; distribution costs; administrative expenses; financial costs – profits attributable to owners of controlling interest and non-controlling interest – **Practical problems on each element.**

Unit – IV

12Hrs

Accounts of Groups:

Concept of group – need for consolidated financial statements - Preparation of consolidated financial statements – Procedure for the preparation of consolidated financial position statement – treatment of pre-acquisition profit; goodwill arising on consolidation; on-controlling interests at fair value – **Practical problems.**

Unit – V

6Hrs

Disclosure Standards

Related party disclosure, Earnings per share, Interim financial reporting, Insurance contracts, Operating segments. (**Theory Only**).

SKILL DEVELOPMENT

- 1) Conversion of final accounts to IFRS
- 2) Analysis of published financial statements for at-least 2 types of stakeholders
- 3) Comments for recent developments/exposure draft in IFRS
- 4) Preparation of notes to accounts for non-current assets
- 5) Assignment on social reporting
- 6) Preparation of Consolidated Financial Statement of any two existing companies.
- 7) Disclosure of change in equity in the annual reports of any two select companies.

Books for reference:

1. IFRS – Student Study Guide - ISDC
2. IFRS for India, Dr.A.L.Saini, Snow white publications
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. IFRS explained – a guide to IFRS by BPP learning Media
5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited.
6. IFRS: A quick reference guide by Robert J Kirk, Elsevier Ltd.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provisions of Income Tax Act 1961 relating to computation of Income of individuals.

Unit 1: INTRODUCTION TO INCOME TAX **10 Hrs**

Brief History of Indian Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration – Theory Only) – Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O.

Unit 2: EXEMPTED INCOMES **04 Hrs**

Introduction – Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS **10 Hrs**

Residential Status of an Individual –Determination of Residential Status – Incidence of Tax – Problems.

Unit 4: INCOME FROM SALARY **20 Hrs**

Meaning – Definition - Basis of Charge– Advance Salary – Arrears of Salary – Allowances – Perquisites– Provident Fund - Profits in Lieu of Salary – Gratuity -Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 – Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY **12 Hrs**

Basis of Charge – Deemed Owners – Exempted Incomes from House Property –Composite Rent - Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax.
6. 7 Lectures – Income Tax – I, VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications.

5.4 COSTING METHODS

OBJECTIVE

To familiarize the students on the use of cost accounting system in different nature of businesses.

Unit 1: INTRODUCTION TO COSTING METHODS

04 Hrs

Costing methods – Meaning, Importance and Categories.

Unit 2: JOB AND BATCH COSTING

12 Hrs

Job costing: Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. **Batch costing:** Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.

Unit 3: PROCESS COSTING

14 Hrs

Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification - Joint and by-products costing – problems under reverse cost method.

Unit 4: CONTRACT COSTING

14 Hrs

Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts, Problems.

Unit 5: OPERATING COSTING

12 Hrs

Introduction, Meaning and application of Operating Costing, - Power house costing or boiler house costing, canteen or hotel costing, hospital costing (Theory only) and Transport Costing – Problems on Transport costing.

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Preparation of Imaginary composite job cost statement
- Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – *Cost Management*
11. Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
12. Anthony R. N. – *Management Accounting Principles*
13. S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
14. J. Made Gowda Cost Accounting
15. Rathnam : Cost Accounting

6.1 BUSINESS REGULATIONS

OBJECTIVE:

To introduce the students to various Business Regulations and familiarize them with common issues of relevance.

UNIT 1: INTRODUCTION TO BUSINESS LAWS

06 Hrs

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Laws.

UNIT 2: CONTRACT LAWS

18Hrs

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: COMPETITION AND CONSUMER LAWS:

14 Hrs

The Competition Act, 2002: Objectives of Competition Act, Features of Competition Act, CAT, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission.

UNIT 4: ECONOMIC LAWS

12 Hrs

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

UNIT 5: ENVIRONMENTAL LAW

06 Hrs

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE:

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, Recent Trends in Auditing: Nature & Significance of Tax Audit – Cost Audit - Management Audit.

Unit 2: INTERNAL CONTROL

10 Hrs

Internal Control: Meaning and objectives. Internal Check: Meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation– Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

10 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this subject is to make the students to understand the computation of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS OR PROFESSION **16 Hrs**

Meaning and Definition of Business, Profession – Vocation - Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS **16 Hrs**

Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F– Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES **10 Hrs**

Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME **06 Hrs**

Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 G, 80 GG, 80 GGA, and 80 U. (80 G & 80 GG together should not be given in one problem)

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS **08Hrs**

Meaning –Provision for Set-off & Carry forward of losses (Theory only).

Computation of Total Income and Tax Liability of an Individual Assessee (Problems– in case of income from salary & house property- computed income may be given).

SKILL DEVELOPMENT

- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
4. Gaur & Narang: Income Tax, Kalyani
5. B.B. Lal: Income Tax, Central Sales Tax Law & Practice, Konark Publisher (P) Ltd.
6. Singhania: Income Tax
7. Dr. H.C Mehrothra : Income Tax, Sahitya Bhavan
8. 7 Lecturer Income Tax – VBH

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

12 Hrs

Management Accounting: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.

UNIT2: RATIO ANALYSIS

14 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.

UNIT 3: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

UNIT 4: CASH FLOW ANALYSIS

14 Hrs

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents - Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of Ind AS-7 (old AS 3) – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind AS-7 (old AS 3) (Indirect Method Only).

UNIT 5: MANAGEMENT REPORTING

06 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

5.5 BUSINESS ENVIRONMENT FOR LOGISTICS & SUPPLY CHAIN

OBJECTIVES:

UNIT – 1: PURCHASE DECISIONS

08 Hrs

Factors influencing procurement decisions. Types of purchases – New purchase, Modified re-buy, straight re-buy. Developing a business case – costs, benefits, options. Benchmarking requirements.

UNIT – 2: FUNDAMENTALS OF PROCUREMENT CONTRACTS

14 hrs

Procurement specifications – Definition of specifications. Types of specifications – Conformation based specifications, Output or outcome based specifications. Contents of specifications. Key Performance Indicators (KPIs). Measures of KPI – timeliness, cost management, resources and delivery.

UNIT – 3: FORMAL CONTRACTS

12 Hrs

Sources of contractual terms. Express terms, Standard terms. Model form contracts – NEC, FIDIC, IMechIEE. Main terms for Indemnities, liabilities, sub-contracting, insurances, guarantees and liquidated damages.

UNIT – 4: COSTING & PRICING OF PROCUREMENT

12 Hrs

Estimation of costs. Types of market data. Direct costs. Indirect costs. Preparation of estimated costs and budgets. Variances to budget. Outsourcing versus other types of procurement. Make or buy decisions. Types of Pricing Arrangements. Pricing schedules.

UNIT – 5: OUTSOURCING

10 Hrs

Definition. Core and non-core work or services. Impact of outsourcing on procurement. Cost-benefit analysis of outsourcing. Risks in outsourcing. Market development and growth of outsourcing. Core competencies and outsourcing opportunities. Process for outsourcing. Exit plans for outsourcing. Developing a business case for outsourcing.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE:

1. S. Chopra and P. Meindl, Supply Chain Management, Prentice Hall, 2010 (4th Edition)
2. Rahul V. Altekhar, 'Supply Chain Management- Concepts and Cases'; Prentice Hall of India, Latest edition.
3. Simchi, D., Kaminsky, P., et al 'Designing and Managing the Supply Chain Concepts, Strategies and Case Studies'; McGraw-Hill Companies, Latest edition.
4. W.J. Hopp and M.L. Spearman. Factory Physics: Foundations of Manufacturing Management. Irwin, McGraw-Hill, 1996.
5. N. Viswanadham. Analysis of Manufacturing Enterprises. Kluwer Academic Publishers, 2000.
6. Sridhar Tayur, Ram Ganeshan, Michael Magazine (editors). Quantitative Models for Supply Chain Management. Kluwer Academic Publishers, 1999.
7. R.B. Handfield and E.L. Nochols, Jr. Introduction to Supply Chain Management. Prentice Hall, 1999.
8. N. Viswanadham and Y. Narahari. Performance Modeling of Automated manufacturing Systems. Prentice Hall of India, 1998.
9. Sunil Chopra and Peter Meindel. Supply Chain Management: Strategy, Planning, and Operation, Prentice Hall of India, 2002.
10. Jeremy F. Shapiro. Modeling the Supply Chain. Duxbury Thomson Learning, 2001.

5.6 SOURCES FOR LOGISTICS & SUPPLY CHAIN

OBJECTIVE:

UNIT – 1: SOURCING

08 Hrs

Definition. Approaches to sourcing. Sole sourcing – Single, Dual & Multiple sourcing arrangements. Tendering – Open, Restricted and Negotiated approaches. Intra - company trading and transfer pricing arrangement. Implications of international sourcing.

Unit – 2: EXTERNAL SOURCING

16 Hrs

Criteria for sourcing requirement from external suppliers – quality assurance, environmental and sustainability, technical capabilities, system capabilities, labour standards, financial capabilities. Award criteria – price, total life cycle costs, technical merit, added value solutions, systems, resources.

UNIT – 3: ASSESSMENT OF FINANCIAL STABILITY

12 Hrs

Sources of information on potential suppliers' financial performance. Financial reports – Profit & Loss Statements, Balance Sheets, and Cash Flow Statements. Ratio Analysis on Liquidity, Profitability, Gearing and Investment. Role of credit rating agencies.

UNIT – 4: ASSESSMENT OF MARKET DATA

12 Hrs

Analyzing Suppliers' Market. Secondary Data on Markets & Suppliers. Indices that measure economic data. Process of obtaining tenders and quotations. Decision criteria for tenders and quotations. Criteria to assess tenders and quotations – use of weighted points system.

Unit – 5: LEGISLATIVE, REGULATORY & ORGANIZATIONAL REQUIREMENTS

08 Hrs

Legislative, Regulatory & Organizational Requirements when sourcing from not-for-profit, private and public sector suppliers. Competitive tendering process. Timescales on tendering process. Procedure for award of contract. Regulatory bodies.

SKILL DEVELOPMENT:

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BOOKS FOR REFERENCE:

1. Donald Waters, Logistics An Introduction to Supply Chain Management, PALGRAVE MACMILLAN, New York,
2. John Gattorna , Handbook of Logistics and Distribution Management.
3. P. Fawcett, R. McLeish and I Ogden, Logistics Management.
4. D.M. Lambert & J R Stock, Richard D Irwin Inc., Strategic Logistics Management.

6.5 CONTRACT AND BUSINESS NEGOTIATION FOR PURCHASING & SUPPLY CHAIN

OBJECTIVE

UNIT – 1: INTRODUCTION TO CONTRACTS & COMMERCIAL NEGOTIATION

08 Hrs

Contracts for supply of goods or services & their documentation. Invitation to tender and quotations. Key performance indicators (KPIs). Contractual terms. Pricing and Other Schedules. Commercial negotiations – sources of personal power, organizational power, comparison of powers of suppliers and purchasers

UNIT – 2: COMMERCIAL AND CONTRACTUAL AGREEMENTS

16 Hrs

Legal issues for Commercial & Contractual agreements – Essentials of a valid contract – offer, acceptance, consideration, capacity to contract, etc. The Vienna Convention on the International Sale of Goods. Types of agreements – One-off purchases, framework agreements, mini competitions, call-offs, service contracts, contracts for hire and leasing of assets

UNIT – 3: COMMERCIAL NEGOTIATION IN RELATION TO SUPPLY CHAIN

12 Hrs

Sources of conflict in relation to commercial negotiation. Team management in commercial negotiation. Approaches for commercial negotiations – Win-win integrative approach, Win-lose approach, Lose-lose approach.

UNIT – 4: COSTS AND PRICES IN COMMERCIAL NEGOTIATIONS

12 Hrs

Types of costs – Direct & Indirect, Fixed & Variable. Break-Even-Analysis, CVP Analysis, Costing Methods – Absorption costing, Marginal Costing & Activity Based Costing. Volumes, Margins and Mark-ups and their impact on pricing. Influence of Micro and Macro economic factors on commercial negotiation.

UNIT – 5: COMMUNICATION AIDS TO UNDERTAKING COMMERCIAL NEGOTIATIONS

08 Hrs

Stages of Commercial Negotiations – Preparation, Opening, Testing, Proposing, Bargaining, Agreement & Closure. Influence of behavior on commercial negotiation. Methods of commercial negotiations – Persuasion method, use of tactics, communication skills. Influence of culture on commercial negotiations. Resources required for commercial negotiations.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

1. R.B. Handfield and E.L. Nochols, Jr. Introduction to Supply Chain Management. Prentice Hall, 1999.
2. N. Viswanadham and Y. Narahari. Performance Modeling of Automated manufacturing Systems. Prentice Hall of India, 1998.
3. Sunil Chopra and Peter Meindel. Supply Chain Management: Strategy, Planning, and Operation, Prentice Hall of India, 2002.
4. Jeremy F. Shapiro. Modeling the Supply Chain. Duxbury Thomson Learning, 2001.
5. David Simchi Levi, Philip kaminsky, and Edith Simchi Levi. Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies. Irwin McGrawHill, 2000.

6.6 MANAGING PROCUREMENT CONTRACTS AND RELATIONSHIP

OBJECTIVE

UNIT – 1: DYNAMICS OF RELATIONSHIPS IN SUPPLY CHAINS

08 Hrs

Types of relationships – internal and external. Relationship spectrum, Relationship life cycle, Classification of competitive forces on relationships. Impact of Social, Technological, Economic, Environmental, Political, Legislative and Ethical (STEEPLE) factors on supply chains.

UNIT – 2: LEGAL ASPECTS ON PERFORMANCE OF CONTRACTS

16 Hrs

Interpretation of financial and technical data relating to the performance of contracts. Elements of a legally binding agreement. Implied and express terms that affect the performance of contracts. Vital and non-vital terms, breach of contracts, assessment of damages, limits of liability, procedure for termination.

UNIT – 3: CONTRACT MANAGEMENT

12 Hrs

Responsibilities for contract management, Contract implementation plans and on-going demand management. Planning and governance for contract management. Resources required for contract management. Responsibilities of a contract manager.

UNIT – 4: CONTRACTUAL RISK & CONFLICT RESOLUTION

12 Hrs

Types of contractual risks – internal, market, economic, legal, ethical and external. Assessment of contractual risks. Approaches to conflict resolution – Negotiated settlement, Alternative dispute resolutions, other mechanisms

UNIT – 5: SUPPLIER RELATIONSHIP MANAGEMENT

08 Hrs

Definitions and Comparison of Contract Management & Supplier Relationship Management. Techniques for supplier relationship management, Approaches to supplier development, Techniques for relationship improvement.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

1. N. Viswanadham and Y. Narahari. Performance Modeling of Automated manufacturing Systems. Prentice Hall of India, 1998.
2. Sunil Chopra and Peter Meindel. Supply Chain Management: Strategy, Planning, and Operation, Prentice Hall of India, 2002.
3. Jeremy F. Shapiro. Modeling the Supply Chain. Duxbury Thomson Learning, 2001.
4. David Simchi Levi, Philip kaminsky, and Edith Simchi Levi. Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies. Irwin McGrawHill, 2000.
5. Donald Waters, Logistics An Introduction to Supply Chain Management, PALGRAVE MACMILLAN, New York,
6. Dr. Martin Khan, Sales & Distribution Management
7. Dr. S. V. Bhawe, Physical Distribution Management



BANGALORE UNIVERSITY

REVISED SYLLABUS 2014 – 2015

B.Com. (CBCS) DEGREE SEMESTER SCHEME

(Revised Syllabus on 08.03.2017 BOS)

DEPARTMENT OF COMMERCE

Central College Campus, Bangalore – 560 001.

REGULATIONS PERTAINING TO B.Com (CBCS) DEGREE SEMESTER SCHEME 2014 - 15

I. OBJECTIVES :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Commerce (Hon.) {B.Com, (Hon.)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII.SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has

submitted the prescribed application for the examination along with the required fees to the university.

- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
B.COM (CBCS) SEMESTER SCHEME -- 2014 – 15
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	1.1	4	3	20	80	100	2
	Language – II : English	1.2	4	3	20	80	100	2
Part 2 Optional	Financial Accounting	1.3	4	3	30	70	100	2
	Indian Financial System	1.4	4	3	30	70	100	2
	Marketing and Services Management	1.5	4	3	30	70	100	2
	A. Corporate Administration OR B. Methods and Techniques for Business Decisions. (Students can choose any one)	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	2.1	4	3	20	80	100	2
	Language – II : English	2.2	4	3	20	80	100	2
Part 2 Optional	Advanced Financial Accounting	2.3	4	3	30	70	100	2
	Retail Management	2.4	4	3	30	70	100	2
	Banking Law and Operations	2.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions – I	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: I Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3.1	4	3	30	70	100	2
	Language – II:English	3.2	3	3	30	70	100	2
Part 2 Optional	Corporate Accounting	3.3	4	3	30	70	100	2
	Financial Management	3.4	4	3	30	70	100	2
	Business Ethics	3.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions –II	3.6	4	3	30	70	100	2
	Public Relations and Corporate Communication	3.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	4.1	4	3	30	70	100	2
	Language – II: English	4.2	3	3	30	70	100	2
Part 2 Optional	Advanced Corporate Accounting	4.3	4	3	30	70	100	2
	Cost Accounting	4.4	4	3	30	70	100	2
	E-Business and Accounting	4.5	4	3	30	70	100	2
	Stock and Commodity Markets	4.6	4	3	30	70	100	2
	Principles of Event Management	4.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurship Development	5.1	4	3	30	70	100	3
	International Financial Reporting Standards	5.2	4	3	30	70	100	3
	Income Tax – I	5.3	4	3	30	70	100	3
	Costing Methods	5.4	4	3	30	70	100	3
	Elective – I	5.5	4	3	30	70	100	3
	Elective – II	5.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Business Regulations	6.1	4	3	30	70	100	3
	Principles and Practice of Auditing	6.2	4	3	30	70	100	3
	Income Tax – II	6.3	4	3	30	70	100	3
	Management Accounting	6.4	4	3	30	70	100	3
	Elective – I	6.5	4	3	30	70	100	3
	Elective – II	6.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

ELECTIVE GROUPS**1. ACCOUNTING & TAXATION GROUP**

Semester No.	Paper No.	Title of the Paper
V	AC. 5.5	Advanced Accounting
	AC.5.6	Goods and Services Tax
VI	AC.6.5	Business Taxation
	AC.6.6	Cost Management

2. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper
V	FN.5.5	International Financial Management
	FN.5.6	Business Taxation
VI	FN.6.5	Performance Management
	FN.6.6	International Auditing & Assurance

3. INFORMATION & TECHNOLOGY GROUP

Semester No.	Paper No.	Title of the Paper
V	I.T 5.5	Accounting Information Systems
	I.T 5.6	Enterprise Resource Planning
VI	I.T 6.5	Information Technology and Audit
	I.T 6.6	Banking Technology and Management

4. BANKING & INSURANCE GROUP

Semester No.	Paper No.	Title of the Paper
V	BI 5.5	International Banking & Forex Management
	BI 5.6	Life & General Insurance
VI	BI 6.5	Risk Management
	BI 6.6	Marketing of Insurance Products

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM 12 Hrs

Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hrs

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).

Unit 4: ROYALTY ACCOUNTS

12 Hrs

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY 12 Hrs

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- List out Various Accounting Standards
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interestwith imaginary figures under Hire Purchase System.

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

14 Hrs

Types of Banking and Non-Banking Financial Institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Mutual Funds – features and types.

Unit 3: COMMERCIAL BANKS

10 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

10 Hrs

Reserve Bank of India (RBI) – Organization – Objectives – Role and Functions. The Securities Exchange Board of India (SEBI) – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

10 Hrs

Meaning & Definition – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance - housing & vehicle finance.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Markets.
- Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE:

The objective is to familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services

Unit 1: INTRODUCTION TO MARKETING

10Hrs

Meaning and definition - Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing. Recent Trends in Marketing - e-business – Tele-marketing – M-Business – Green Marketing – Retailing, Relationship Marketing – Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT

12Hrs

Meaning – demographic- economic – natural – technological – political – legal – socio cultural environment. Market Segmentation and Consumer Behaviour - Meaning & Definition - Bases of Market Segmentation – Consumer Behaviour – Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX

16Hrs

Meaning – elements – PRODUCT – product mix, product line – product life cycle – product planning – new product development – branding - packing and packaging. PRICING – factors influencing pricing, methods of pricing (only Meaning), and pricing policy - PHYSICAL DISTRIBUTION, Meaning, factors affecting channels, types of marketing channels, PROMOTION –Meaning and significance of promotion – personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICES MANAGEMENT

10Hrs

Meaning of services – characteristics of services – classification of services – marketing mix in service industry – growth of service sector in India. Service processes – Designing the service process – service blueprint – back office & front office process.

UNIT 5: SERVICE SECTOR MANAGEMENT

08 Hrs

Tourism and Travel Services – concept, nature, significance and marketing. Health Care services – concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a new product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition – Financial Service in India.
2. Philip Kotler - Marketing Management, PHI
3. Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
4. Sunil B. Rao - Marketing & Services Mgt – HPH.
5. Dr. Alice Mani: Marketing & Services Management, SBH.
6. J.C. Gandhi - Marketing Management, TMH
7. Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH

8. Jayachandran ; Marketing Management. Excel Books.
9. K. Venkatramana, Marketing Management, SHBP.
10. P N Reddy & Appanniah, Essentials of Marketing Management, HPH
11. Sontakki, Marketing Management, HPH
12. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
13. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
14. K. Karunakaran; Marketing Management, HPH.
15. Davar: Marketing Management.

1.6.(A) CORPORATE ADMINISTRATION

OBJECTIVE

The objective is to enable the students to get familiarized with the existing Company Law and Secretarial Procedure.

Unit 1: INTRODUCTION TO COMPANY

12 Hrs

Meaning and Definition – Features – Steps in formation of Joint Stock Company, High Lights of Companies Act 2013 - Kinds of Companies – One Person Company, Private Company, Public Company, Company limited by Guarantee, Company limited by Shares, Holding Company, Subsidiary Company, Government Company, Associate Company, Small Company, Foreign Company, Global Company, Body Corporate, Listed Company.

Unit 2: FORMATION OF A COMPANY

14 Hrs

Promotion Stage: Meaning of Promoter, Position of Promoter & Functions of Promoter, Incorporation Stage – Meaning & contents of Memorandum of Association & Articles of Association, Distinction between Memorandum of Association and Articles of Association, Certificate of Incorporation, Subscription Stage – Meaning & contents of Prospectus, Statement in lieu of Prospects and Book Building, Commencement Stage – Document to be filed, e-filing, **Register of Companies**, Certificate of Commencement of Business.

Unit 3: COMPANY ADMINISTRATION

18 Hrs

Key Managerial Personnel – Managing Director, Whole time Directors, the Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Auditors – Appointment – Powers - Duties & Responsibilities. Managing Director – Appointment – Powers – Duties & Responsibilities. Audit Committee, CSR Committee. Company Secretary - Meaning, Types, Qualification, Appointment, Position, Rights, Duties, Liabilities & Removal or dismissal.

Unit 4: CORPORATE MEETINGS

08 Hrs

Corporate Meetings - Types of Meetings – Annual General Meeting – Extraordinary General Meetings – Board Meetings and Resolutions - Requisites of a valid meeting

Unit 5: FORMATION OF GLOBAL COMPANIES

04 Hrs

Meaning – Types – Features – Legal Formalities – Administration.

SKILL DEVELOPMENT

- Drafting of Memorandum of Association, Drafting Articles of Association.
- Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
- Drafting Resolutions of various meetings – different types.
- Chart showing Company's Organization Structure.
- Chart showing different types of Companies.

BOOKS FOR REFERENCE

1. S.N Maheshwari; Elements of Corporate Law, HPH.
2. Balchandran – Business Law for Management HPH
3. Dr. B.G. Bhaskar, K.R. Mahesh Kumar – Corporate Administration, VBH
4. Dr. P.N. Reddy and H.R. Appanaiah: Essentials of Company Law and Secretarial Practice, HPH.
5. M.C. Shukla & Gulshan: Principles of Company Law.
6. K. Venkataramana, Corporate Administration, SHBP.
7. N.D. Kapoor: Company Law and Secretarial Practice, Sultan Chand.
8. C.L Bansal: Business and Corporate Law
9. M.C. Bhandari: Guide to Company Law Procedures, Wadhwa Publication.
10. S.C. Kuchal: Company Law and Secretarial Practice.
11. S.C. Sharma : Business Law, I.K. International Publishers
12. S.N Maheshwari ; Elements of Corporate Law, Vikas Publishers.

1.6 (B) METHODS AND TECHNIQUES FOR BUSINESS DECISIONS

OBJECTIVE

The objective is to provide basic knowledge of mathematics and their application to commercial situations.

Unit 1: NUMBER SYSTEM

06 Hrs

Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems).

Unit 2: THEORY OF EQUATIONS

10 Hrs

Introduction – Meaning - Types of Equations – Simple/ Linear Equations and Simultaneous Equations (only two variables), Elimination and Substitution Methods only. Quadratic Equation - Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Applications.

Unit 3: MATRICES AND DETERMINANTS

14 Hrs

Meaning – types – operation on matrices – additions – subtractions and multiplication of two matrices – transpose – determinants – minor of an element – co-factor of an element –inverse – crammers rule in two variables – application oriented problems.

Unit 4: COMMERCIAL ARITHMETIC

16 Hrs

Simple Interest, Compound Interest including half yearly and quarterly calculations, Annuities, Percentages, Bills Discounting, Ratios and proportions, duplicate-triplicate and sub-duplicate of a ratio. Proportions: third, fourth and inverse proportion - problems.

Unit 5: PROGRESSIONS

10 Hrs

PROGRESSIONS: Arithmetic Progression - Finding the 'nth' term of AP and Sum to nth term of AP. Insertion of Arithmetic Mean Geometric Progression – Finding the 'nth' term of GP and sum to 'n' the term of GP and insertion of Geometric Mean

SKILL DEVELOPMENT:

- Develop an Amortization Table for Loan Amount – EMI Calculation.
- Secondary overhead distribution summary using Simultaneous Equations Method.
- Preparation of Bank Statement.
- Application of Matrix In Business Problems

BOOKS FOR REFERENCE:

- Saha: Mathematics for Cost Accountants, Central Publishers
- R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
- Dr. Sancheti & Kapoor: Business Mathematics and Statistics, Sultan Chand
- Zamarudeen: Business Mathematics, Vikas
- R.S Bhardwaj :Mathematics for Economics & Business
- Madappa, mahadi Hassan, M. Iqbal Taiyab – Business Mathematics, Subhash
- G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publishers

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE :

The objective of this subject is to acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.

Unit 1: INSURANCE CLAIMS

12 Hrs

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 2: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction – Meaning – Consignor – Consignee – Goods Invoiced at Cost Price – Goods Invoiced at Selling Price – Normal Loss – Abnormal Loss – Valuation of Stock – Stock Reserve – Journal Entries – Ledger Accounts in the books of Consignor and Consignee.

Unit 3: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction – Meaning – Objectives – Distinction between joint venture and consignment – Distinction between joint venture and partnership – maintenance of accounts in the books of co-venturers – maintaining separate books for joint venture – preparation of memorandum joint venture - problems.

Unit 4: BRANCH ACCOUNTS

10 Hrs

Introduction – Meaning – Objectives – Types of Branches - Dependent Branches – Features – Supply of Goods at Cost Price - Invoice Price – Branch Account in the books of Head Office (Debtors System Only).

Unit 5 : DEPARTMENTAL ACCOUNTS

10 Hrs

Meaning, Objectives, basis of allocation of expenses, Trading and Profit and Loss Account in Columnar form – (Excluding Inter Departmental Transfers at invoice price)

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- List out the basis of Allocation of Departmental Expenses.
- Preparation of Consignment account with imaginary figures
- Preparation of Joint accounts with imaginary figures

BOOKS FOR REFERENCE:

1. Arulanandam & Raman; Advanced Accountancy, HPH
2. Anil Kumar – Advanced Financial Accounting HPH
3. Dr. Alice Mani: Advanced Financial Accounting, SBH.
4. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
5. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
6. Souandrajan & K. Venkataramana, Financial Accounting, SHBP.
7. A Bannerjee; Financial Accounting.
8. Radhaswamy and R.L. Gupta, Advanced Accounting , Sultan Chand
9. M.C. Shukla and Grewel, Advanced Accounting , S Chand

2.4 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAIL BUSINESS **10 Hrs.**

Definition – functions of retailing - types of retailing – forms of retail business ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario. International perspective in retail business.

Unit 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS **12 Hrs.**

Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction. Retail planning process: Factors to consider in preparing a business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS **10 Hrs.**

Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising, Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.

Unit 4: RETAIL MARKETING MIX **16 Hrs.**

Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal Methods.

Unit 5: IMPACT OF INFORMATION TECHNOLOGY IN RETAILING **08 Hrs.**

Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing.

SKILL DEVELOPMENT

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing
- List out the Factors Influencing in the location of a New Retail outlet.

BOOKS FOR REFERENCE

1. Suja Nair; Retail Management, HPH
2. Karthic – Retail Management, HPH
3. S.K. Poddar & others – Retail Management, VBH.
4. R.S Tiwari ; Retail Management, HPH

5. Barry Bermans and Joel Evans: "Retail Management – A Strategic Approach", 8th edition, PHI/02
6. A.J.Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
7. Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
8. K. Venkataramana, Retail Management, SHBP.
9. James R. Ogden & Denise T.: Integrated Retail Management
10. A Sivakumar : Retail Marketing , Excel Books
11. Ogden : Biztantra, 2007
12. Levy & Weitz : Retail Management -TMH 5th Edition 2002
13. Rosemary Varley, Mohammed Rafiq-: Retail Management
14. Chetan Bajaj : Retail Management -Oxford Publication.
15. Uniyal &Sinha : Retail Management - Oxford Publications.
16. Araif Sakh ; Retail Management

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

10 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

10 Hrs

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special Relationships.

Unit 3: BANKING OPERATIONS

18 Hrs

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course - Statutory Protection to Collecting Banker

Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques.

Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

12Hrs

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P. Srivastava ; Banking Theory & Practice, Anmol Publications
3. M. Prakhas, Bhargabhi R: Banking law & Operation, Vision Book House.
4. Tannan M.L: Banking Law and Practice in India, Indian Law House
5. Sheldon H.P: Practice and Law of Banking.
6. K. Venkataramana, Banking Operations, SHBP.
7. Kothari N. M: Law and Practice of Banking.
8. Neelam C Gulati: Principles of Banking Management.
9. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
10. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
11. S. Vipradas & j. K Syan: Bank Lending
12. Gajendra & Poddar : Law and Practice of Banking
13. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS-I

OBJECTIVE

The objective is to provide basic knowledge of statistics and their application to business situations.

Unit 1: INTRODUCTION TO STATISTICS

03Hrs

Meaning and Definition – Functions – Scope – Limitations.

Unit 2: CLASSIFICATION AND TABULATION OF DATA

08 Hrs

Collection of data - census and sample techniques. Classification of data, preparation of frequency distribution and tabulation of data.

Unit 3: MEASURES OF CENTRAL TENDENCY

20Hrs

Meaning and Definition Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (excluding missing frequency problems). Graphical representation of median and mode – Ogive– curve, histogram, smoothed frequency curve and frequency polygon.

Unit 4: MEASURES OF DISPERSION AND SKEWNESS

15 hrs

Meaning & Definition -Range, Quartile Deviation, Mean Deviation Standard Deviation and Co-efficient of Variation. Skewness: Meaning, uses, and problems on Karl Pearson's' Co-efficient of skewness.

Unit 5: INDEX NUMBERS

10 Hrs

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (including TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

- Draw a blank table showing different attributes
- Collect marks scored 50 students in a examinations and prepare a frequency distributions table
- Collect data relating to prices of shares of two companies for ten days and ascertain which companies shares prices is more stable
- Collect the run scored by the two batsmen in ten one day international cricket matches, find who is better run getter and who more consistence.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate Cost of Living Index.

BOOKS FOR REFERENCE

1. Anand Sharma : Statistics For Management, HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. D.P Apte ; Statistical Tools for Managers.
4. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
5. S.C Gupta: Business Statistics, HPH
6. N.V.R Naidu : Operation Research I.K. International Publishers
7. Ellahance : Statistical Methods, Kitab Mehel.
8. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
9. Veerachamy: Operation Research I.K. International Publishers
10. S. Jayashankar: Quantitative Techniques for Management.
11. Chikoddi & Satya Prasad : Quantitative Analysis for Business Decision, HPH
12. Dr. Alice Mani: Quantitative Analysis for Business Decisions - I, SBH.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES

08 Hrs

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries).

Unit 2: PROFIT PRIOR TO INCORPORATION

12 Hrs

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL

08 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems.

Unit 4: VALUATION OF SHARES

08 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per 2011 revised format)

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect Prospectus of a company and identify its salient features.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the intrinsic value of shares
- Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION

12 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

16 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function of a company.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Capital structure analysis of companies in different industries
- Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
4. G. Sudarshan Reddy, Financial Management, HPH
5. Roy – Financial Management, HPH
6. Khan and Jain, Financial Management, TMH
7. S. Bhat- Financial Management.
8. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
9. I M Pandey, Financial Management. Vikas Publication.
10. Prasanna Chandra, Financial Management, TMH
11. P.K Simha – Financial Management.
12. M. Gangadhar Rao & Others , Financial management
13. Dr. Alice Mani: Financial Management, SBH.

3.5 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS

12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS

12 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT

12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS

12 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE

12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

3.6 QUANTATIVE ANALYSIS FOR BUSINESS DECISIONS-II

OBJECTIVE:

The objective is to familiarize the students with various statistical techniques for their application in Business Decisions.

Unit 1: CORRELATION AND REGRESSION ANALYSIS

20 Hrs

Correlation: Meaning and Definition - Uses – Types – Karl Pearson's coefficient of correlation – probable error - Spearman's Rank Correlation Coefficient. Regression: Meaning, Uses, Regression lines, Regression Equations. Correlation Coefficient through Regression Coefficient

Unit 2: TIME SERIES

12 Hrs

Introduction – Meaning – Uses – Components of Time Series – Fitting a straight line trend by the method of least squares and Computation of Trend Values (when $\sum X = 0$) including Graphical presentation of trend values – Problems.

Unit 3: INTERPOLATION AND EXTRAPOLATION

08 Hrs

Meaning - Significance – Assumptions - Methods of Interpolation – Binomial expansion (Interpolating method one and two missing values only) - Newton's Advancing Differences Method - Problems.

Unit 4: SAMPLING AND SAMPLING DISTRIBUTION

08 Hrs

Meaning, Objectives and Types : Probability Sampling and Non-Probability Sampling Techniques- Meaning of Population, Parameter and Statistic - Sampling distribution – Meaning and usefulness of Standard Error (Simple Problems on calculation of Sample size)

Unit 5: THEORY OF PROBABILITY

08 Hrs

Meaning and Importance of Probability- Experiment, Event and types of events, Addition Theory of probability. (Simple Problems on addition theorem only)

SKILL DEVELOPMENT:

- Collect age statistics of 10 newly married couples and compute correlation coefficient
- Collect age statistics of 10 newly married couples and compute regression equations; Estimate the age of bride when age of bridegroom is given.
- Collect the turnover of a company for 7 years and predict the sales of 8th year by using method of least square.
- Collect the sales or production statistics of a company for five years and extrapolate the production or sales for the 6th Year.

BOOKS FOR REFERENCE:

1. Sridhara Bhatt - Quantitative Techniques for Managers , HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. B. G. Bhaskara & others: Quantitative Analysis for Business Decision II
4. S C Gupta and V K Kapoor, Fundamentals of Mathematical Statistics
5. Sancheti and Kapoor, Sultan Chand
6. S. Jaishankar: Quantitative Techniques for Managers
7. G C Beri, Statistics for Management.

8. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
9. Veerachamy: Operation Research I.K. International Publishers
10. Ellahance : Statistical Methods
11. Quantitative Techniques for Managerial Decisions, U K Srivastava, G V Shenoy,
12. S C Sharama, New Age International Publishers.
13. C.R Reddy , Quantitative Techniques for Management Decisions
14. Dr. Alice Mani: Quantitative Analysis for Business Decisions - II, SBH.

3.7 PUBLIC RELATIONS AND CORPORATE COMMUNICATION

OBJECTIVE

To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

10 Hrs

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – Ways to build positive attitude – Effects of negative attitude and measures to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hrs

Meaning of Vision – Doing things for the right purpose – Setting and achieving goals – Importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of Stress Management and Time Management.

Unit 3: CREATIVITY

10 Hrs

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

10 Hrs

Significance – Process of Communication – Forms of Communication - Communication Gap – Listening Skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparation for GD & Interview.

Unit 5: CAREER PLANNING

06Hrs

Career Planning, Awareness of different Careers, Sources of Information, Choosing a Career and Career counseling.

SKILL DEVELOPMENT:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise
- Role play.

BOOKS FOR REFERENCE:

1. C.S. Raydu – Corporate Communication, HPH
2. Rai & Rai Business Communication, HPH
3. S.P. Sharman, Bhavani H. – Corporate Communication, VBH
4. Collins: Public Speaking
5. Mair : Art of Public Speaking
6. K. Venkataramana, Corporate Communication, SHBP.
7. Rajkumar: Basic of Business Communication
8. V.N. Ahuja.: The World's Famous Speeches
9. Daniel Goleman : Emotional Intelligence
10. Jyotsna Codety :Understanding Emotional Intelligence .

11. Dalip Singh :Emotional Intelligence at Work .
12. B. Das / I Satpathy: Business Communication & Personality Development.
13. B.Husluck :Personality Development – Elizabeth.
14. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
15. Allen Bease :Body Language .
16. Tanushree Pooder :Fit and Fine Body and Mind
17. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
18. Partho Pratim Roy :Business Communications – The Basics
19. Sajitha Jayaprakash :Technical Communication

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour - Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

14 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Identification of elements of cost in services sector by Visiting any service sector.
- Cost estimation for the making of a proposed product.
- Draft the specimen of any two documents used in material account.
- Collection and Classification of overheads in an organization on the basis of functions.
- Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting , HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting , HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

7. P. K Sinha – Accounting & Costing for Managers.
8. M.L. Agarwal: Cost Accounting
9. Dr. Alice Mani: Cost Accounting, SBH.
10. S.P Jain & Narang: Cost Accounting , Kalyani
11. Palaniappan and Hariharan : Cost Accounting I.K. International Publishers
12. S.P. Iyengar: Cost Accounting, Sultan Chand ans Sons
13. S.N. Maheshwari: Cost Accounting, Vikas
14. M. N. Arora: Cost Accounting, HPH
15. Dutta: Cost Accounting
16. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.

4.5 E-BUSINESS AND ACCOUNTING

OBJECTIVE:

The objective of the subject is to familiarize the students with E- Commerce models and Tally

UNIT 1. E-BUSINESS

10 Hrs

Introduction, E-Commerce – Definition, History of E-commerce, Difference between E - Commerce and E - Business. Comparison of traditional commerce and e-commerce Advantages/ Disadvantages of e-commerce,. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. HARDWARE AND SOFTWARE FOR E-BUSINESS

10Hrs

Web server – Internet – World Wide Web - hardware and software for web servers, web hosting choices – shopping cart.

Unit 3: GETTING STARTED WITH TALLY

10Hrs

Meaning of Tally software – Features – Advantages - Required Hardware, Preparation for installation of tally software - installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, Other information, Company features and Inventory features.

Unit 4: CONFIGURING TALLY

16Hrs

General Configuration, Numerical symbols, accts/inv info – master configuration -voucher entry configuration. **Working in Tally:** Groups, Ledgers, writing voucher, different types of voucher, voucher entry Problem on Voucher entry -Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: REPORTS IN TALLY:

10Hrs

Generating Basic Reports in Tally – Financial Statements – Accounting Books and Registers – Inventory Books and Registers – Exception reports – printing reports – Types of Printing Configuration of Options – Printing Format.

SKILL DEVELOPMENT:

- Generating the report of journal
- Generating the report on cash book
- Generating the report on profit and losing account
- Generating the report on balance sheet

BOOKS FOR REFERENCE

1. Raydu – E Commerce, HPH
2. Suman. M – E Commerc & Accounting - HPH
3. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
4. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
5. Amrutha Gowry & Soundrajana, E – Business & Accounting, SHBP.
6. C.S.V Murthy- E Commerce, HPH
7. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
8. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
9. P. Diwan / S. Sharma – E – Commerce
10. Srivatsava: E.R.P, I.K. International Publishers
11. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
12. Tally for Enterprise Solutions

4.6. STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.

Unit: 1 AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of Commodities and Commodities Market, differences between stock market and commodities market.

Unit: 2 STOCK MARKET: 12Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: Meaning, types (in brief).

Unit:3 TRADING IN STOCK MARKET: 14Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL), Central Securities Depository Ltd.(CSDL) (in brief).

Unit: 4 COMMODITIES MARKET: 12Hrs

History, Membership, Objectives, Functions of commodities exchange, Organization and role of commodity exchange, Governing Body, Types of Transactions to be dealt in Commodity Market – physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit: 5 TRADING IN COMMODITY MARKETS: 08Hrs

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of volumes of Commodities

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of shares and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. K. Venkataramana, Stock & Commodity Markets, SHBP.
4. B. Kulkarni – Commodity Markets & Derivatives.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
7. Srivastava R.M ; Management of Indian Financial Institutions
8. Pallavi Modi : Equity – The Next Investment Destination
9. Prisswami – Indian Financial System
10. Ghowria Khatoon – Stock & Commodity Markets, VBH.

4.7 PRINCIPLES OF EVENT MANAGEMENT

OBJECTIVE:

The objective is to provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

Unit: 1- INTRODUCTION TO EVENT MANAGEMENT

12 Hrs

Event- Meaning- Why Event Management- Analysis of Event, Scope of Event, Decision Makers- Event Manager Technical Staff- Establishing of Policies & Procedure- Developing Record Keeping Systems.

Unit: 2-EVENT MANAGEMENT PROCEDURE

12 Hrs

Principles for holding an Event, General Details, Permissions- Policies, Government and Local Authorities, - Phonographic Performance License, Utilities- Fire Bridge Ambulance Catering, Electricity, Water Taxes Applicable.

Unit: 3-CONDUCT OF AN EVENT.

12 Hrs

Preparing a Planning Schedule, Organizing Tables, Assigning Responsibility, Communication and Budget of Event- Checklist, Computer aided Event Management– Roles & Responsibilities of Event Managers for Different Events.

Unit: 4-PUBLIC RELATIONS

10 Hrs

Introductions to Public Relations- Concept- Nature- Importance- Limitations- Media- Types of Media- Media Management, Public Relation Strategy & Planning. Brain Storming Sessions- Writings for Public Relations.

Unit: 5 CORPORATE EVENTS

10 Hrs

Planning of Corporate Event, Job Responsibility of Corporate Events Organizer, Arrangements, Budgeting, Safety of Guests and Participants, Creating Blue Print, Need for Entertainment in Corporate Events And Reporting.

Skill Development

1. Preparation of Event Plan for Wedding, Annual general body Meeting of an MNC.
2. Preparing Budget for conduct of National level intercollegiate sports events.
3. Preparation of Event Plan for College day Celebrations
4. Preparation of Budget for Conducting inter collegiate Commerce Fest.

Book References

1. Event Entertainment and Production – Author: Mark Sonderm CSEP Publisher: Wiley & Sons, Inc.
2. Ghose Basha – Advertising & Media Mgt, VBH.
3. Anne Stephen – Event Management, HPH.
4. K. Venkataramana, Event Management, SHBP.
5. Special Event Production – Doug Matthews – ISBN 978-0-7506-8523-8
6. The Complete Guide to successful Event Planning – Shannon Kilkenny
7. Human Resource Management for Events – Lynn Van der Wagen (Author)
8. Successful Team Management (Paperback) – Nick Hayed (Author)
9. Event Management & Public Relations by Savita Mohan – Enkay Publishing House
10. Event Management & Public Relations By Swarup K. Goyal – Adhyayan Publisher - 2009

5.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE:

To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

12 Hrs

Meaning & Definition – Product Range - Capital Investment - Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

14 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, Technical, Market and Social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI - Non-financial assistance from DIC, SISI, AWAKE, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasanth Desai, Management of Small Scale Industry, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Dr. Venkataramana ; Entrepreneurial Development, SHB Publications

4. Udai Pareek and T.V. Rao, Developing Entrepreneurship
5. Rekha & Vibha – Entrepreneurship Development, VBH
6. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
7. B. Janakiraman , Rizwana M: Entrepreneurship Development, Excel Books
8. Srivastava, A Practical Guide to Industrial Entrepreneurs
9. Anil Kumar: Small Business and Entrepreneurship I.K. International Publishers
10. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
11. Bharusali, Entrepreneur Development
12. Satish Taneja ; Entrepreneur Development
13. Vidya Hattangadi ; Entrepreneurship
14. N.V.R Naidu : Entrepreneurship Development, I.K. International Publishers

5.2 INTERNATIONAL FINANCIAL REPORTING STANDARDS

OBJECTIVE: The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit-I **5Hrs**

International Financial Reporting Standards:

Meaning of IFRS - relevance of IFRS to India; merits and limitations of IFRS; process of setting IFRS- Practical challenges in implementing IFRS; a brief theoretical study of International financial reporting standards (IFRS) 1 – 15 - List of International accounting standards issued by IASB.

Unit – II **25Hrs**

Accounting for Assets and Liabilities

Recognition criteria's for Investment properties, Government grants, Borrowing costs, Construction contracts, share based payments, Provisions, Contingent liabilities and Contingent assets, Events occurring after the reporting period (**Only Theory**).

Recognition and measurement for property plant and equipment, Intangible assets, Inventories, Leases and Impairment. Accounting for Income tax, Employee benefits. - **Simple problems**

Unit-III **8Hrs**

Presentation of Financial Statements:

Outline for the preparation of financial statements - Statement of financial position; Comprehensive income statement; Statement of changes in equity (SOCE), IAS 18 – Revenue.

Elements of financial statements as per IFRS – Non-current assets; current assets; equity; non-current liability; current liability; revenue; cost of sales; distribution costs; administrative expenses; financial costs – profits attributable to owners of controlling interest and non-controlling interest – **Practical problems on each element.**

Unit – IV **12Hrs**

Accounts of Groups:

Concept of group – need for consolidated financial statements - Preparation of consolidated financial statements – Procedure for the preparation of consolidated financial position statement – treatment of pre-acquisition profit; goodwill arising on consolidation; on-controlling interests at fair value – **Practical problems.**

Unit – V **6Hrs**

Disclosure Standards

Related party disclosure, Earnings per share, Interim financial reporting, Insurance contracts, Operating segments. (**Theory Only**).

SKILL DEVELOPMENT

- 1) Conversion of final accounts to IFRS
- 2) Analysis of published financial statements for at-least 2 types of stakeholders
- 3) Comments for recent developments/exposure draft in IFRS
- 4) Preparation of notes to accounts for non-current assets
- 5) Assignment on social reporting
- 6) Preparation of Consolidated Financial Statement of any two existing companies.
- 7) Disclosure of change in equity in the annual reports of any two select companies.

Books for reference:

1. IFRS – Student Study Guide - ISDC
2. IFRS for India, Dr.A.L.Saini, Snow white publications
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. IFRS explained – a guide to IFRS by BPP learning Media
5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited.
6. IFRS: A quick reference guide by Robert J Kirk, Elsevier Ltd.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provisions of Income Tax Act 1961 relating to computation of Income of individuals.

Unit 1: INTRODUCTION TO INCOME TAX

10 Hrs

Brief History of Indian Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration – Theory Only) – Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O.

Unit 2: EXEMPTED INCOMES

04 Hrs

Introduction – Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS

10 Hrs

Residential Status of an Individual –Determination of Residential Status – Incidence of Tax – Problems.

Unit 4: INCOME FROM SALARY

20 Hrs

Meaning – Definition - Basis of Charge– Advance Salary – Arrears of Salary – Allowances – Perquisites– Provident Fund - Profits in Lieu of Salary – Gratuity -Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 – Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY

12 Hrs

Basis of Charge – Deemed Owners – Exempted Incomes from House Property –Composite Rent - Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax.
6. 7 Lectures – Income Tax – I, VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications.

5.4 COSTING METHODS

OBJECTIVE

To familiarize the students on the use of cost accounting system in different nature of businesses.

Unit 1: INTRODUCTION TO COSTING METHODS 04 Hrs

Costing methods – Meaning, Importance and Categories.

Unit 2: JOB AND BATCH COSTING 12 Hrs

Job costing: Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. **Batch costing:** Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.

Unit 3: PROCESS COSTING 14 Hrs

Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification - Joint and by-products costing – problems under reverse cost method.

Unit 4: CONTRACT COSTING 14 Hrs

Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts, Problems.

Unit 5: OPERATING COSTING 12 Hrs

Introduction, Meaning and application of Operating Costing, - Power house costing or boiler house costing, canteen or hotel costing, hospital costing (Theory only) and Transport Costing – Problems on Transport costing.

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Preparation of Imaginary composite job cost statement
- Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – *Cost Management*
11. Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
12. Anthony R. N. – *Management Accounting Principles*
13. S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
14. J. Made Gowda Cost Accounting
15. Rathnam : Cost Accounting

6.1 BUSINESS REGULATIONS

OBJECTIVE:

To introduce the students to various Business Regulations and familiarize them with common issues of relevance.

UNIT 1: INTRODUCTION TO BUSINESS LAWS

06 Hrs

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Laws.

UNIT 2: CONTRACT LAWS

18Hrs

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: COMPETITION AND CONSUMER LAWS:

14 Hrs

The Competition Act, 2002: Objectives of Competition Act, Features of Competition Act, CAT, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission.

UNIT 4: ECONOMIC LAWS

12 Hrs

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

UNIT 5: ENVIRONMENTAL LAW

06 Hrs

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE:

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, Recent Trends in Auditing: Nature & Significance of Tax Audit – Cost Audit - Management Audit.

Unit 2: INTERNAL CONTROL

10 Hrs

Internal Control: Meaning and objectives. Internal Check: Meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation– Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

10 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this subject is to make the students to understand the computation of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS OR PROFESSION **16 Hrs**

Meaning and Definition of Business, Profession – Vocation - Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS **16 Hrs**

Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F– Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES **10 Hrs**

Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME **06 Hrs**

Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 G, 80 GG, 80 GGA, and 80 U. (80 G & 80 GG together should not be given in one problem)

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS **08Hrs**

Meaning –Provision for Set-off & Carry forward of losses (Theory only).

Computation of Total Income and Tax Liability of an Individual Assessee (Problems– in case of income from salary & house property- computed income may be given).

SKILL DEVELOPMENT

- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
4. Gaur & Narang: Income Tax, Kalyani
5. B.B. Lal: Income Tax, Central Sales Tax Law & Practice, Konark Publisher (P) Ltd.
6. Singhania: Income Tax
7. Dr. H.C Mehrothra : Income Tax, Sahitya Bhavan
8. 7 Lecturer Income Tax – VBH

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

12 Hrs

Management Accounting: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.

UNIT2: RATIO ANALYSIS

14 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.

UNIT 3: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

UNIT 4: CASH FLOW ANALYSIS

14 Hrs

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents - Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of Ind AS-7 (old AS 3) – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind AS-7 (old AS 3) (Indirect Method Only).

UNIT 5: MANAGEMENT REPORTING

06 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

ELECTIVE GROUPS

1. ACCOUNTING & TAXATION GROUP

AC 5.5 ADVANCED ACCOUNTING

OBJECTIVES:

The objective is to acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations.

UNIT 1: ACCOUNTS OF BANKING COMPANIES

18 Hrs

Business of banking companies – some important provisions of Banking Regulation Act of 1949 – minimum capital and reserves – restriction on commission – brokerage – discounts – statutory reserves – cash reserves – books of accounts – special features of bank accounting, final accounts - balance sheet and profit and loss account – interest on doubtful debts – rebate on bill discounted – acceptance – endorsement and other obligations – problems as per new provisions.

UNIT 2: ACCOUNTS OF INSURANCE COMPANIES

14 Hrs

Meaning of life insurance and general insurance – accounting concepts relating to insurance companies - Preparation of Final accounts of insurance companies – revenue account and balance sheet.

UNIT 3: INFLATION ACCOUNTING

08 Hrs

Need – Meaning – definition – importance and need – role – objectives – merits and demerits – problems on current purchasing power method (CPP) and current cost accounting method (CCA).

UNIT 4: FARM ACCOUNTING

08 Hrs

Meaning – need and purpose – characteristics of farm accounting – nature of transactions – cost and revenue – apportionment of common cost – by product costing – farm accounting – recording of transactions – problems.

UNIT 5: INVESTMENT ACCOUNTING

08 Hrs

Introduction – classification of Investment – Cost of Investment – cum-interest and ex-interest – securities – Bonus shares- right shares – disposal of Investment – valuation of investments – procedures of recording shares – problems

SKILL DEVELOPMENT

- Preparation of different schedules with reference to final accounts of Banking Companies
- Preparation of financial statement of Life Insurance Company.
- Preparation of financial statement of General Insurance Company.

BOOKS FOR REFERENCE:

1. Made Gowda – Advanced Accounting, HPH
2. Jawaharlal, Managerial Accounting, HPH
3. S.N. Maheswari , Advanced Accountancy, Vikas Publishers
4. R. Venkataramana, Advanced Accountancy, VBH.
5. Soundrarajan A & K. Venkataramana, Advanced Accountancy, SHBP.
6. S. P. Jain and K. L. Narang – advanced accountancy, Kalyani
7. R L Gupta, Advanced Accountancy, Sultan Chand
8. Shukla and Grewal, Advanced Accountancy, S Chand

AC 5.6 GOODS AND SERVICES TAX

OBJECTIVE:

1. The objective is to equip students with the principles and provisions of Goods and Services Tax (GST), which is, implemented from 2017 under the notion of One Nation, One Tax and One Market.
2. To provide an insight into practical aspects and apply the provisions of GST laws to various situations.

Unit 1: INTRODUCTION TO GOODS AND SERVICES TAX (GST)

08 Hrs

Objectives and basic scheme of GST, Meaning – Salient features of GST – Subsuming of taxes – Benefits of implementing GST – Constitutional amendments - Structure of GST (Dual Model) – Central GST – State / Union Territory GST – Integrated GST - GST Council: Structure, Powers and Functions. Provisions for amendments.

Unit 2: GST ACTS: CGST Act, SGST Act (Karnataka State), IGST Act

08 Hrs

Salient features of CGST Act, SGST Act (Karnataka State), IGST Act - **Meaning and Definition:**

Aggregate turnover, Adjudicating authority, Agent, Business, Capital goods, Casual taxable person, Composite supply, Mixed supply, Exempt supply, Outward supply, Principal supply, Place of supply, Supplier, Goods, Input service distributor, Job work, Manufacture, Input tax, Input tax credit, Person, Place of business, Reverse charge, Works contract, Casual taxable person, Non-resident person. Export of goods / services, Import of goods / services, Intermediary, Location of supplier of service, Location of recipient of service.

Unit 3: PROCEDURE AND LEVY UNDER GST

24 Hrs

Registration under GST: Procedure for registration, Persons liable for registration, Persons not liable for registration, Compulsory registration, Deemed registration, Special provisions for Casual taxable persons and Non-resident taxable persons. Exempted goods and services - Rates of GST.

Procedure relating to Levy: (CGST & SGST): Scope of supply, Tax liability on Mixed and Composite supply, Time of supply of goods and services, Value of taxable supply. Computation of taxable value and tax liability.

Procedure relating to Levy: (IGST): Inter-state supply, intra-state supply, Zero rates supply, Value of taxable supply – Computation of taxable value and tax liability.

Input tax Credit: Eligibility, Apportionment, Inputs on capital goods, Distribution of credit by Input Service Distributor (ISD) – Transfer of Input tax credit - Simple Problems on utilization of input tax credit.

Unit 4: ASSESSMENT AND RETURNS

10 Hrs

Furnishing details of outward supplies and inward supplies, First return, Claim of input tax credit, Matching reversal and reclaim of input tax credit, Annual return and Final return. Problems on Assessment of tax and tax liability.

Unit 5: GST AND TECHNOLOGY

06 Hrs

GST Network: Structure, Vision and Mission, Powers and Functions. Goods and Service Tax Suidha Providers (GSP): Concept, Framework and Guidelines and architecture to integrate with GST system. GSP Eco system. (Theory only).

SKILL DEVELOPMENT:

- Narrate the procedure for calculation of CGST, SGCT and IGST.
- Show the flow chart of GST Suvidha Provider (GST).
- Prepare chart showing rates of GST.
- Prepare challans for payment of duty.
- Prepare Tax invoice under the GST Act.
- Prepare structure of GSTN and its working mechanism.
- Prepare list of exempted goods/ services under GST.
- Prepare organisation chart of GST Council.
- Prepare the chart showing scheme of GST.
- Compute taxable value and tax liability with imaginary figures under CGST, SGST and IGST.

BOOKS FOR REFERENCE:

1. Deloitte: GST Era Beckons, Wolters Kluwer.
2. Madhukar N Hiregange: Goods and Services Tax, Wolters Kluwer.
3. All About GST: V.S Datey - Taxman's.
4. Guide to GST: CA. Rajat Mohan,
5. Goods & Services Tax – Indian Journey: N.K. Gupta & Sunnania Batia, Barat's Publication
6. Goods & Services Tax – CA. Rajat Mohan,
7. Goods & Services Tax: Dr. Sanjiv Agrawal & CA. Sanjeev Malhotra.
8. GST - Law & Practice: Dr. B.G. Bhaskara, Manjunath. N & Naveen Kumar IM,
9. Understanding GST : Kamal Garg, Barat's Publication.

AC 6.5 BUSINESS TAXATION

OBJECTIVE

The objective is to enable the students to understand assessment of Firms and Companies with regard to Income tax act, 1961 and to study the other existing Indirect tax provisions on goods not covered under GST.

Unit 1: CUSTOMS ACT

10 Hrs

Meaning – Types of Custom Duties – Valuation for Customs Duty – Tariff Value – Customs Value – Methods of Valuation for Customs – Problems on Custom Duty.

Unit 2: SALES TAX / CENTRAL SALES TAX (on goods and services not covered under GST)

12 Hrs

Meaning and Definition – Features of Sales tax / CST – Levy and Collection of duties not covered under GST – Tax Administration – Taxable value of goods and services not covered under GST – Determination of Tax Liability (Simple Problems).

Unit 3: ASSESSMENT OF FIRMS

14 Hrs

Meaning of Partnership, Firm and Partners – New Scheme of Taxation of Firms – Assessment of Firms (Section 184) – Computation of Firm's Business Income – Treatment of Interest, Commission, Remuneration received by partners. Problems on Computation of Firms total income and tax liability.

Unit 4: ASSESSMENT OF COMPANIES

20 Hrs

Introduction – Meaning of Company – Types of Companies – Computation of Depreciation u/s 32 – Computation of Taxable Income of Companies – Minimum Alternative Tax (MAT) – Deductions u/s 80G, 80GGB, 80IA, 80 IB and Problems on Computation of Tax Liability.

SKILL DEVELOPMENT

- Collect financial statement of a firm and compute the taxable income
- Narrate the procedure for calculation of book profits.
- Narrate the Procedure of calculation of tax liability
- Prepare the challan for payment of tax under existing laws on goods not covered under GST.

BOOKS FOR REFERENCE

1. Vinod K Singhania – “Direct Taxes - Law and Practice”, Taxmann Publications
2. H C Mehrotra and Goyal, “Direct Taxes”, Sahitya Bhavan Publications
3. Gaur and Narang ; Direct Taxes, Kalyani Publishers
4. Rajiva S. Mishra –Direct & Indirect Tax
5. Santhil & Santhil : Business taxation.
6. S. Bhat – Taxation Management.
7. Singhania : Income Tax
8. V.S.Datey: Indirect Taxes – Law and Practice.
9. R. G. Saha, Usha Devi & Others – Taxation – HPH
10. 7 Lecturers Business Taxation – II, VBH

AC 6.6 COST MANAGEMENT

OBJECTIVE

The objective is to enable the students to understand techniques used to control as well as reduce the cost.

UNIT 1: COST CONTROL AND COST REDUCTION:

08 Hrs

Meaning of cost control and cost reduction, areas covered by cost control and cost reduction – product design, target costing, value analysis, value engineering, value chain analysis, Business Process Re-Engineering (theory only).

Unit 2: MARGINAL COSTING

12 Hrs

Absorption costing, cost classification under absorption costing, Meaning and Definition of marginal costing – Absorption Costing V/s Marginal Costing - Need for Marginal Costing, arguments against and in favor of marginal costing – marginal cost equation – Uses and Limitations of Marginal Costing - Break even analysis - Problems on Break Even Analyses.

Unit 3: STANDARD COSTING

12 Hrs

Historical costing - Introduction – Meaning & Definition of Standard Cost and Standard Costing - Advantages & Disadvantages of Standard Costing –preliminaries in establishing system of standard costing – Variance Analysis – Material Variance, Labour Variance and Overheads Variance – Problems on Material Variances and Labor Variances.

Unit 4: BUDGETARY CONTROL

12 Hrs

Introduction – Meaning & Definition of Budget and Budgetary Control – Objectives of Budgetary Control – essential requirements of budgetary control – advantages and disadvantages of budgetary control – Meaning, Types of Functional Budgets - Flexible Budgets, Cash Budgets, sales budget and production budget. Problems on Flexible budgets and cash budgets.

UNIT5: ACTIVITY BASED COSTING

12 Hrs

Introduction - Weakness of conventional system – concept of ABC – Kaplan and Cooper’s Approach – cost drivers and cost pools – allocation of overheads under ABC – Characteristics of ABC – Steps in the implementation of ABC – Benefits from adaptation of ABC system – difficulties faced by the industries in the successful implementation of ABC - Problems on ABC.

SKILL DEVELOPMENT

- Preparation of Income Statement using Absorption Costing and Marginal Costing Technique
- Illustrate make or buying decisions helps in decision making.
- Preparation of Sales Budget with Imaginary Figures
- List any 10 industries where Standard Costing is used.

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. B.S. Raman, Cost Accounting.
3. K.S. Thakur: Cost Accounting.
4. M.N. Arora, Cost Accounting.
5. N. Prasad, Costing.
6. Palaniappan&Hariharan : Cost Accounting
7. Jain &Narang, Cost Accounting.
8. Gouri Shankar; Practical Costing.
9. IM Pandey :Management Accounting
10. CA & ICWA Bulletins.

2. FINANCE GROUP

FN 5.5 INTERNATIONAL FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to develop the knowledge and skills expected of a Finance manager, in relation to investment, financing, and dividend policy decisions.

Unit 1: THE FINANCE FUNCTION

08 HRS

Financial management and financial objectives - The economic environment for business - Financial markets, money markets and institutions.

Unit 2: WORKING CAPITAL MANAGEMENT

08 HRS

The nature, elements and importance of working capital - Management of inventories accounts receivable accounts payable and cash determining working capital needs and funding strategies

Unit 3: INVESTMENT APPRAISAL

10 HRS

Investment appraisal techniques - Allowing for inflation and Taxation in investment appraisal - Adjusting for risk and uncertainty in investment appraisal - Specific investment decisions (lease or buy; asset replacement, capital rationing)

Unit 5: BUSINESS FINANCE

08 HRS

Sources of, and raising business finance - Estimating the cost of capital - Sources of finance and their relative costs - Capital structure theories and practical considerations

Unit 6: BUSINESS VALUATION

12 HRS

Nature and purpose of the valuation of business and financial assets - Models for the valuation of shares - The valuation of debt and other financial assets - Efficient market hypothesis (EMH) and practical considerations in the valuation of shares.

Unit 7: RISK MANAGEMENT

10 HRS

The Nature and types of Risk and approaches to Risk Management- Causes of Exchange Rate differences and Interest rate fluctuations – Hedging techniques for foreign Currency risk – Hedging techniques for Interest rate risk.

SKILL DEVELOPMENT

- Appreciate the role and purpose of the financial management function within an Business
- Examine the various sources of Business Finance, including Dividend policy and how much finance can be raised from within the Business
- Illustrate the principles underlying the Valuation of Business and financial assets including the impact of cost of capital on the value of Business.
- Examine the risks and the main techniques employed in the Management of such risk

RECOMMENDED BOOKS

- 1 International Financial Management by Milind Sathye, Larry Rose, Larissa Allen, Rae Weston.
- 2 Financial Management by Paresh Shah
- 3 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 4 Audit & Assurance INT (ACCA) BPP Publishing
- 5 Audit & Assurance INT (ACCA) Kaplan Publishing

FN 5.6 BUSINESS TAXATION

OBJECTIVE:

The objective is to equip students with the application of principles and provisions of Central sales tax, Customs act, Central excise, value added tax, Service tax laws, and provide an insight into practical aspects and apply the provisions of tax laws to various situations.

Unit 1: CENTRAL SALES TAX / G.S.T (GOODS & SERVICES TAX) 16 Hrs

Objects and basic scheme of CST act, Meaning – Dealer – Business – Sale – Goods – declared goods, Turnover – Sale Price – Sales Exempt from Central Sales Tax, interstate and intra state sale, sales in the course of imports and exports, registration under CST act, Introduction to GST – GST Tax Rates – Problems on Central Sales Tax.

Unit 2: CUSTOMS ACT 12 Hrs

Meaning – Types of Custom Duties – Valuation for Customs Duty – Tariff Value – Customs Value – Methods of Valuation for Customs – Problems on Custom Duty

Unit 3: CENTRAL EXCISE 12 Hrs

Procedures relating to Levy, Valuation and Collection of Duty, Types of Duty, Nature of Excise Duties – Cenvat Credit – Classification of Excisable Goods – Valuation of Excisable Goods – Important Central Excise Procedures – Problems.

Unit 4: VALUE ADDED TAX 08 Hrs

Basic Concepts of Value Added Tax – Dealer – Registered Dealer – Sales – Turnover – Input VAT – Output VAT – Goods – Capital Goods – Exempted Sales, Zero rated sale – Merits and Demerits of VAT – Features and Methods of VAT – Variants of VAT – Methods of Computation of VAT (Simple Problems)

Unit 5: SERVICE TAX 08 Hrs

Meaning and Definition – Features of Service Tax – Levy and Collection of Service Tax – Service Tax Administration – Exemptions from Service Tax – Taxable Services – Determination of Service Tax Liability (Simple Problems)

SKILL DEVELOPMENT

- Procedure of Calculation of Service tax and Challan for payment of tax under service tax act
- Narrate the procedure for calculation of CST, Customs duty, Central excise, VAT, Service tax
- Preparation of challans for payment of duty.
- Preparation of Manufacturers Invoice.
- Preparation of Tax invoice under the VAT act.

BOOKS FOR REFERENCE:

1. R.K.Jain: Customs Law Mannual and Customs Tariff of India.
2. Taxmann's: Central Excise Mannual and Central Excise Tariff.
3. Taxmann's: CENVAT Law and Procedure.
4. TN Manoharan, Income Tax Law including VAT/Service Tax, Snow White Publications
5. Vinod K Singhania – “Direct Taxes - Law and Practice”, Taxmann Publications
6. H C Mehrotra and Goyal, “Direct Taxes”, Sahitya Bhavan Publications

7. Gaur and Narang ; Direct Taxes, Kalyani Publishers
8. Rajiva S. Mishra –Direct & Indirect Tax
9. S.Bhat: Taxation Management
10. G. Sekar, Income Tax, Service Tax and VAT, C. Sitaraman & Co. Pvt. LTD.
11. Karnataka Value added tax Act, 2003 published by Karnataka Law Journal Publications
Bangalore - 560009
12. Santhil & Santhil : Business taxation.
13. V.S.Datey: Indirect Taxes – Law and Practice.
14. R.G Saha, Usha Devi & Other – Taxation – HPH
15. 7 Lecturers Business Taxation – I, VBH

FN 6.5 PERFORMANCE MANAGEMENT

OBJECTIVE

The objective is to develop knowledge and skills in the application of management accounting techniques to quantitative and qualitative information for planning decision making, performance evaluation, and control

UNIT 1: SPECIALIST COST AND MANAGEMENT ACCOUNTING TECHNIQUES 12 HRS

Activity-based costing - Target costing - Life cycle costing - Throughput accounting - Environmental accounting

UNIT 2: DECISION MAKING TECHNIQUES 12 HRS

Relevant cost analysis - Cost volume profit analysis - Limiting Factors Pricing decisions - Make-or-buy and other short-term decisions - Dealing with risk and uncertainty in decision making

Unit 3: BUDGETING AND CONTROL 10 HRS

Budgetary systems and types of budget - Quantitative analysis in budgeting Standard costing - Material mix and yield variances - Sales mix and quantity variances - Planning and operational variances

Unit 4: PERFORMANCE MEASUREMENT AND CONTROL 12 HRS

Performance management information systems - Sources of management Information - Management reports - Performance analysis in private sector organizations - Divisional performance and transfer pricing - Performance analysis in not-for-profit organizations and the public sector - External considerations and behavioral aspects

SKILL DEVELOPMENT

- Illustrate application of modern techniques of costing in industrial settings
- Appreciate the problems surrounding scarce resource, pricing and make-or-buy decisions, and how this relates to the assessment of performance
- Illustrate how a business should be managed and controlled and how information systems can be used to facilitate this
- Appreciate the importance of both financial and non-financial performance measures in management and the difficulties in assessing performance in divisionalized businesses.

RECOMMENDED BOOKS

- 1 Performance Management System - R K Sahu
- 2 Performance Management: Toward Organizational Excellence by T V Rao
- 3 Performance Management: It's About Performing - Not Just Appraising by Prem Chandha
- 4 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 5 Audit & Assurance INT (ACCA) BPP Publishing
- 6 Audit & Assurance INT (ACCA) Kaplan Publishing

FN 6.6 INTERNATIONAL AUDITING & ASSURANCE

OBJECTIVE:

This subject aims at imparting knowledge of International Auditing and Assurance.

UNIT 1: AUDIT FRAMEWORK AND REGULATION

12 hours

External audit engagements – Objective and Meaning, types of assurance engagement, Concepts of Accountability, Stewardship and Agency, Elements of an Assurance Engagement, Regulatory environment – external audit, Mechanism to control auditors, Statutory Regulations: Appointment, Rights, Removal and Resignation of Auditors, Limitations of external audit, Corporate Governance – Objective and meaning, Directors responsibilities, Role and structure of Audit Committee, Fundamental principles of Professional Ethics, Audit threats and Safeguards, Role of External and Internal audit, Factors to assess – Internal audit, Limitations of internal audit, Outsourcing – Advantage and Disadvantage of outsourcing internal audit function, Format and Content of Audit Review Reports

UNIT 2: PLANNING AND RISK ASSESSMENT

10 hours

Preconditions for Audit, Obtaining audit engagement, Engagement Letters - Contents, Quality Control Procedures, Overall objectives of the auditor and the need to conduct an audit, Components of audit risk, Concepts – Materiality and Performance Materiality, Materiality levels, Procedures to obtain initial understanding, Analytical procedures in planning, Compute and interpret key ratios used in analytical procedures, Effect of fraud and misstatements on the Audit Strategy, Responsibilities of internal and external auditors for the prevention and detection of fraud and error, Audit Planning – need and importance, Contents of the overall Audit Strategy and Audit Plan, Difference between an interim and final audit, Audit Documentation – Need, importance and contents, safe custody and retention of Working Papers

UNIT 3: INTERNAL CONTROL

12 hours

Five components of Internal Control, How auditors record internal control systems, Evaluate internal control components including limitations and deficiencies, computer systems controls, Describe control objectives, control procedures, activities and tests of control in relation to:

i) The sales system; ii) The purchases system iii) The payroll system iv) The inventory system v) The cash system vi) Non-current assets

Requirements and methods of how reporting significant deficiencies in internal control are provided to management

UNIT 4: AUDIT EVIDENCE

12 hours

Assertions contained in the financial statements, audit procedures to obtain audit evidence, quality & quantity of audit evidence, problems associated with the audit and review of accounting estimates, control environment of smaller entities, Audit sampling – meaning and need, differences between statistical and non-statistical sampling – Examples and usage, Audit of specific items – Receivables, inventories, payables and accruals, bank and cash, tangible assets, intangible assets, non-current liabilities, provisions and contingencies, Share capital, reserves and directors' emoluments, Computer-assisted audit techniques – Meaning and examples, Work of others – extent of reliance, extent to which reference to the work of others can be made in the independent auditor's report, Audit techniques to not-for profit organisation.

UNIT 5: REVIEW AND REPORTING

10 hours

Subsequent events – Purpose, Indicators and Responsibilities and procedures to be undertaken, Going Concern – Definition and importance, Responsibilities of auditors and management regarding going concern, Written representations – Purpose, Procedure and Reliability, Circumstances when written representation can be obtained, Audit finalisation and review – Procedures and sufficiency of evidence, Dealing with Uncorrected Statements.

SKILL DEVELOPMENT:

- Collect the information about types of audit standards
- Analyse audit reports on various standards
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset
- Draft an audit program

BOOKS FOR REFERENCE:

- 1 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 2 Audit & Assurance INT (ACCA) BPP Publishing
- 3 Audit & Assurance INT (ACCA) Kaplan Publishing
- 4 Auditing and Assurance for CA IPCC by Sanjib Kumar Basu
- 5 BN Tandon, Practical Auditing, Sultan Chand
- 6 Dr.Nanje Gowda, Principles of Auditing, VBH
- 7 Dr. Alice Mani: Principles & Practices of Auditing, SBH.
- 8 K. Venkataramana, Principles And Practice Of Auditing, SHBP.
- 9 MS Ramaswamy, Principles and Practice of Auditing.
- 10 DinakarPagare, Practice of Auditing, Sultan Chand
- 11 Kamal Gupta, Practical Auditing, TMH

3. INFORMATION & TECHNOLOGY GROUP

I.T 5.5 ACCOUNTING INFORMATION SYSTEMS

OBJECTIVE:

The objective of this subject is to provide an insight into the way computerized information systems impact how the accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.

Unit – 1: THE INFORMATION SYSTEM: AN ACCOUNTANT’S PERSPECTIVE 12Hrs

The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function. Evolution of Information System Models - The Manual Process Model, The Flat-File Model, The Database Model, The REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2: INTRODUCTION TO TRANSACTION PROCESSING _____ 12Hrs

An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle , Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts , Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems , Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3: COMPUTER-BASED ACCOUNTING SYSTEMS 12Hrs

Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues.

Unit – 4: FINANCIAL REPORTING AND MANAGEMENT REPORTING SYSTEMS 12Hrs

Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting , Behavioral Considerations.

Unit – 5: COMPUTER CONTROLS AND AUDITING IT CONTROLS 08Hrs

Relationship between IT Controls and Financial Reporting, Audit Implications of Sections **IT Governance Controls, Organizational Structure Controls**, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure.

SKILL DEVELOPMENT:

- Generation of different types of management reports
- Preparation of dataflow diagrams
- Preparation of different flowcharts -Eg: Information flow in Finance department of a company
- Computerization of transactions and drawing of a Balance Sheet

BOOKS FOR REFERENCE:

1. Marriappa B. Accounting Information System, HPH
2. "Accounting Information Systems", 11/E Marshall B. Romney, Brigham Young University Paul J. Steinbart, Arizona State University, Prentice Hall
3. "The Crossroads of Accounting and IT" Donna Kay, Ali Ovlia, May 2011, Hardback,
4. "Accounting Information Systems" International Edition 10th Edition George Bodnar, William Hopwood Aug 2009,.

I.T 5.6 ENTERPRISE RESOURCE PLANNING

OBJECTIVES:

This paper will orient students to understand that business processes can be integrated in a seamless chain.

UNIT 1: INTRODUCTION

12Hrs

Introduction To ERP, Evolution of ERP, What is ERP? Reasons for the growth of ERP, Scenario and Justification of ERP in India, Evaluation of ERP, Various Modules of ERP, Advantage of ERP.

UNIT 2: ERP ENVIRONMENT

12 Hrs

An overview of Enterprise, Integrated Management Information, Business Modeling, ERP for Small Business, ERP for make to order companies, Business Process Mapping for ERP Module Design, Hardware Environment and its Selection for ERP Implementation.

UNIT 3: ERP RELATED TECHNOLOGIES

12 Hrs

ERP and Related Technologies, Business Process Reengineering (BPR), Management Information System (MIS), Executive Information System (EIS), Decision support System (DSS), Supply Chain Management (SCM)

UNIT 4: ERP MODULES

10Hrs

ERP Modules, Introduction to Finance, Plant Maintenance, Quality Management, Materials Management

UNIT 5: ERP MARKET

10Hrs

ERP Market, Introduction, SAP AG, Baan Company, Oracle Corporation, People Soft, JD Edwards World Solutions Company, System Software Associates, Inc. (SSA)
QAD, A Comparative Assessment and Selection of ERP Packages and Modules.

SKILL DEVELOPMENT:

- Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE:

1. C.S. V Murthy Enterprise Resource Planning
2. R.G. Saha – Enterprise Resource Planning - HPH
3. Alexis Leon, Leon Publishers: Enterprise Resource Planning
4. Ravi Anupindi, Sunil Chopra, Pearson Education”. “Managing Business Process Flows
5. Altekar, PHI. Enterprise Resource Planning
6. Srivatsava, I.K. International Publishers, Enterprise Resource Planning
7. P. Diwan
8. Vinod Kumar Garg and N.K. Venkitakrishnan, PHI. Enterprise Resource Planning
9. Introduction to SAP, an Overview of SD: MM, PP, FI/CO Modules of SAP.
10. Zaveri Jyotindra Enterprise Resource Planning

I.T 6.5 INFORMATION TECHNOLOGY AND AUDIT

OBJECTIVE:

This subject aims at imparting knowledge about Auditing done with the use of Information Technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE

12 Hrs

Introduction – Meaning - Definition — Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS

10 Hrs

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS

10 Hrs

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods, Setting closing stock manually in the balance sheet. Balance Sheet of Joint Stock Companies.

Unit 4: TAX AUDIT

12 Hrs

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT

12 Hrs

Creation and maintenance of Audit Program, create the Audit Program as pre audit activity, Supports to prepare and maintain **Audit Working Papers**, Facility to mark the applicable and compiled **Accounting Standards** for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE:

1. Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.
2. Guide to Tally 9, Law Point,
3. R.G. Saha – Information Technology - HPH
4. Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5.

I.T6.6 BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this subject is to acquaint students with the banking technology and their recent developments and enhance their knowledge on modern banking concepts and techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING **12Hrs**

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS **12Hrs**

Delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3: BACK OFFICE OPERATIONS **12Hrs**

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4: INTER BANK PAYMENT SYSTEM **10Hrs**

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGS – Negotiated dealing systems and securities settlement systems – Electronic Money – E- Cheques.

Unit 5: CONTEMPORARY ISSUES IN BANKING TECHNIQUES **10Hrs**

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

SKILL DEVELOPMENT :

- Filling of application for opening a Bank Account
- Preparations of Bank Reconciliation Statement
- Identify and compare the banking delivery channels of nationalized banks and private banks
- List out the boons and the banes of computerization of banks operations.
- Current issues in banking technology to be discussed in class.

BOOKS FOR REFERENCE:

1. Kaptan S S & Choubey N S, “E-Indian Banking in Electronic Era”, Sarup & Sons, New Delhi 2003.
2. Vasudeva, “E-Banking”, Common Wealth Publishers, New Delhi, 2005.
3. Chandramohan : Fundamental of Computer Network I.K. International Publishers
4. Effraim Turban, Rainer R. Kelly, Richard E. Potter, “Information Technology”, John Wiley & Sons Inc, 2000.
5. Andrew S. Tanenbaum, “Computer Networks”, Tata McGraw Hill, 3rd Edition, 2001
6. Padwal & Godse : Transformation of Indian Banks with Information Technology.

4BANKING & INSURANCE GROUP

B.I 5.5 INTERNATIONAL BANKING & FOREX MANAGEMENT

OBJECTIVE

The objective of this subject is to enable the students to understand the various concepts of international banking and foreign exchange rate determination.

UNIT1 : INTRODUCTION TO INTERNATIONAL BANKING 10Hrs

Introduction – Meaning – Functions – Financing of Exports – Financing of Imports – International Payment Systems.

UNIT 2 : INTERNATIONAL CAPITAL MARKETS 10Hrs

Introduction – Meaning and Definition – Types – Financial market flow beyond national boundaries – Debt and non – debt flows – Volatile and Stable flows – Interest Rate Differentials - Demand for and supply of funds across borders.

UNIT 3 : OFFSHORE BANKING CENTRES 10Hrs

Introduction – Meaning – Role in International Financing – Global Balance sheet of banks – Asset and Liability Management of Foreign Banks.

UNIT 4: FOREIGN EXCHANGE AND MARKETS 14Hrs

Introduction – Meaning – Elements – Importance – Evolution of Exchange Rate System – International Monetary System – Gold Standard – Types of Exchange Rates – Fluctuations in Foreign Exchange rates – Causes and Effects – Need for Stable Foreign Exchange Rates – Determination of Exchange rates – Theories of Determination of Foreign Exchange Rates.

UNIT 5 : FOREX MARKET IN INDIA 12Hrs

Introduction – Meaning – Types – Operations – Convertibility - Objectives of Foreign Exchange Control – Problems of Foreign Exchange markets in India – Mechanism to settle the problems - Role of RBI in settlement of foreign exchange problems in India.

SKILL DEVELOPMENT

- Chart showing the currencies of Different countries.
- Table showing one month foreign exchange rates of Rupee and US \$
- Role of RBI in settlement of foreign exchange problems in India.
- Global Balance sheet of a bank
- Comment on Asset and Liability Management of a Foreign Bank.

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Keith Pibean, International Finance.
3. Madhu Vjj, International Finance.
4. Timothy Carl Kesta, Case and Problems in International Finance.
5. Avadhani B.K, International Finance Theory and Practice.
6. Somanatha: International Financial Management I.K. International Publishers
7. P.A. Apte, International Financial Management.
8. Levi, International Marketing Management.
9. Chaudhuri & Agarwal Foreign Trade & Foreign Exchange, HPH

B.I. 5.6 LIFE & GENERAL INSURANCE

OBJECTIVE

The objective is to enable the students to understand various aspects of Life & General Insurance.

Unit 1: INTRODUCTION TO LIFE INSURANCE **12 Hrs**

Introduction to Life Insurance - Principles of Life Insurance - Life insurance products, pensions and annuities - Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

Unit 2: LEGAL ASPECTS OF LIFE INSURANCE **12 Hrs**

Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA Act.

Unit 3: CLAIM MANAGEMENT & RE-INSURANCE **10 Hrs**

Claim Management - Claim Settlement - Legal Framework - Third party Administration, Insurance ombudsman - Consumer Protection Act - Re-Insurance in Life Insurance - Retention Limits - Methods of Re-insurance.

Unit 4: INTRODUCTION TO GENERAL INSURANCE **12 Hrs**

Introduction to General Insurance. Principles of General Insurance. Types of General Insurance - Personal general insurance products (Fire, Personal Liability, Motors, Miscellaneous Insurance). Terminology, clauses and covers. Risk assessment, underwriting and ratemaking. Product design, development and evaluation. Loss of Provincial control.

Unit 5: INSURANCE INDUSTRY **10 Hrs**

Insurance Industry - Brief History - Pre Nationalization and post nationalization - Current scenario.- Re-Insurance - Functions, Methods of Re-Insurance.

SKILL DEVELOPMENT :

- Calculation of policy premium with imaginary figures
- Calculation of fair claims with imaginary figures
- Preparation of list occupational hazards under life insurance

BOOKS FOR REFERENCE

1. Annie Stephen L – HPH
2. P. Perya Swamy ;Principles and Practice of Life Insurance
3. Raman B, Your Life Insurance Hand Book
4. William C. Arthur, Risk Management and Insurance
5. G. Krishna Swamy: A Text book on Principles and Practices of Life Insurance
6. Gopal Krishnan, Liability Insurance
7. Aramvalarthan : Risk Management I.K. Intl
8. Mishra M.N, Insurance Principles and Practice
9. Bose A.K, Engineering Insurance
10. Fire Insurance Claim – Insurance institute of India
11. P. K Gupta; Insurance & Risk Management

B.I 6.5 RISK MANAGEMENT

OBJECTIVE

The objective is to expose students to acquire skills in Risk Management.

Unit 1: INTRODUCTION TO RISK MANAGEMENT

10 Hrs

Introduction to risk management- elements of uncertainty peril, hazards – types, risk management process- definition, types and various means of managing risk – limitations of risk management.

Unit 2: SOURCES OF RISK AND EXPOSURE

10 Hrs

Sources of risk and exposure, pure risk and speculative risk, acceptable and non- acceptable risks, static and dynamic risk, various elements of cost of risk.

Unit 3: CORPORATE RISK MANAGEMENT

12 Hrs

Corporate risk management, riskiness of returns, -approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

Unit 4: DERIVATIVES AS RISK MANAGEMENT TOOLS

12 Hrs

Derivatives as risk management tools, features of hedging, forward, future, options and swaps. Classification of derivatives, important features of derivatives.

Unit 5: HEDGING & OPTIONS

12 Hrs

Hedging risks with currency and interest rate futures, index future and commodity futures, Fundamental concepts of options and hedging and risk management with options, Fundamentals of currency and interest rate swaps- risk management with swaps, Fundamental concepts of VAR approach and insurance.

SKILL DEVELOPMENT

- Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools.

BOOKS FOR REFERENCE

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance Institute of India
6. N. Gulati –Risk Management
7. Aramvalarthan : Risk Management I.K. International Publishers
8. Life Insurance Claims - Insurance Institute of India
9. Gupta S.P, Liability and Engineering Insurance
10. Gupta S.P, Marine Insurance Claim
11. G. Kotreshwar – Risk Management

B.I 6.6 MARKETING OF INSURANCE PRODUCTS

OBJECTIVE

The objective is to enable the students to acquire skills in Marketing of Insurance Products

Unit 1: INTRODUCTION TO MARKETING IN THE INSURANCE INDUSTRY 14 hrs

The role of the customer in marketing, The definition of marketing, Marketing and other related business functions within the insurance industry, Creating a marketing strategy for insurance products, Impact of external and internal factors on the marketing strategy, External considerations including: Social – Economic – Competition – Technological – Ecological and Meteorological – Consumer protection, Internal considerations including: Structure - Behaviour – Values.

Unit 2: MARKETING THEORY AND CONCEPTS IN THE INSURANCE INDUSTRY

14 hrs

Insurance customers and their buying patterns, Supply and demand in the insurance industry (including insurance cycle), The marketing mix, Segmentation of existing and prospective customers, Competitive positioning, Differentiation of the product, Financial Value Chain analysis, Portfolio management, The life cycle of insurance products, Analyzing existing insurance customers, Core competencies, Internal auditing of marketing practices, SWOT analysis.

Unit 3: DEVELOP A MARKETING STRATEGY FOR INSURANCE PRODUCTS 14 hrs

Identifying segments in insurance customers, Customer's attributes and behaviour, Using data from customer relationship management systems to feed into strategy, Identifying competitors, Competitor's portfolio of offerings and position, Developing a portfolio of opportunities, Scenario testing, Taking a position in the market, Value and supply chain analysis, Pricing, Regulation, Branding insurance products and services, Establishing a brand, The importance of branding, Brand awareness, Brand extension, White labeling.

Unit 4: IMPLEMENT AND DELIVER A MARKETING STRATEGY 14 hrs

Communicating the marketing message for insurance products and services, The marketing communications portfolio, The marketing message, E-marketing, Advertising, Sales and account management, Public relations, Promotion, Sponsorship, Emergency communications plan, Distributing insurance and finance products and services, Different channels for distribution (including Call centers), Distribution options: Financial advisers – Intermediaries / brokers – Direct selling – Financial institutions, including bank assurance – Aggregators – Other organizations distributing insurance, Risk assessment, Service delivery, Customer experience, including claims, Managing the customer relationship.

SKILL DEVELOPMENT

- Preparation of an advertisement copy to Marketing Insurance Products.
- Conducting a survey to understand policy holders stratification
- Designing brochure for Marketing Insurance Products

BOOKS FOR REFERENCE

1. Marketing: concepts and strategies. Sally Dibb ... [et al]. 5th European ed. Boston, Massachusetts: Houghton Mifflin, 2005.
2. The marketing casebook. Sally Dibb, Lyndon Simpkin. 2nd ed. London: Thomson Learning, 2001.

3. Marketing management. Philip Kotler. 13th ed. London: Pearson Education, 2009.
4. Marketing planning for financial services. Roy Stephenson. Aldershot, Hants: Gower, 2005.
5. A Mishra/A Mishra – Marketing strategy.
6. Marketing strategy: the difference between marketing and markets. Paul Fifield. 3rd ed. London: Butterworth- Heinemann, 2007.
7. Marketing theory: a student text. Michael J Baker. London: Thomson Learning, 2000.
8. Principles of marketing. Philip Kotler, Gary Armstrong. 12th ed. International ed. Upper Saddle River, New Jersey: Pearson Education, 2008
9. Innovative Marketing balancing Commercial goals & Corporate responsibility

No: Aca-I/R3/re-modify UG-Calendar of Events/2017-18

Dated: 27.06.2017

MODIFIED NOTIFICATION

Sub:- Calendar of Events for B.A/B.Sc/B.Sc (FAD)/BCA/B.Com/BBA/ BHM/BVA Undergraduate courses for the academic year 2017- 18.

Ref:- 1.Uni. Notification No: Aca-I/R3/UG-Calendar of Events/2017-18, dated: 28.04.2017
2. Note from Registrar (Eva), BUB dated: 09.05.2017.
3. Modified Uni. Notification No: Aca-I/R3/Modify UG-Calendar of Events/2017-18, Dated: 26.05.2017, 30.05.2017
4. Vice-Chancellor's approval dated: 30.05.2017 and 27.06.2017

* * * * *

In partial modification of this office Notification dated: 28.04.2017 and modified notifications dated: 26.05.2017 and 30.05.2017, the date of commencement of I, III, V, semester UG classes including VII semester of BHM course is from 05.07.2017 instead of 28.06.2017.

The detailed modified Calendar of events will be issued in due course.

BY ORDER



REGISTRAR

27/6/2017

To

The Principals of Affiliated Colleges of Bangalore University.

Copy to:

1. The Deans, Faculties of Arts, Science, Commerce & Management, B.U.B
2. The Officer on Special duty to the Hon'ble Minister for Higher Education, Vidhana Soudha, Bangalore, for kind information.
3. P.A. to the Principal Secretary to the Govt. Higher Education Dept. 6th Floor M.S. Building Dr. Ambedkar Veedhi, Bangalore -560 001 for kind information.
4. PA to Vice-Chairman, Karnataka State, Higher Education Council, Palace Road Bangalore-01.
5. The Director of Students Welfare, B.U.B.
6. Smt. Sujatha, System Analyst, Bangalore University, Bangalore – with a request to please publish in the Bangalore University Website.
7. PS to VC /Registrar (Eva) /PA to FO, Bangalore University, Bangalore.
8. Office Copy / Guard file.



BANGALORE UNIVERSITY

SYLLABUS 2012-13

BCom., Degree Semester Scheme

DEPARTMENT OF COMMERCE

Central College Campus, Bangalore – 560 001

Copy for the Controller

[Signature]
03/5/12

BANGALORE UNIVERSITY

DEPARTMENT OF COMMERCE

REGULATIONS PERTAINING TO B.Com DEGREE SEMESTER SCHEME

I. Objectives :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management accountancy, professions in capital and commodity markets, professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.

II. Eligibility for Admission :

Candidates who have completed Two year Pre - University course of Karnataka State or its equivalent are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is 3 years of Six Semester. A candidate shall complete his/her degree within six (6) academic years from the date of his/her admission to the first semester.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VI. COURSE MATRIX

See Annexure - 1

VII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects including part - B subjects of III and IV semesters (excepting languages, compulsory additional subjects and core Information Technology related subjects) subjects mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

There shall be a university examination at the end of each semester. The maximum marks for the university examination in paper shall be 100. For Skill development Record maintenance grades ranging from 'A to D' shall be awarded by the Faculty concerned.

Grades for Skill Development Record maintenance shall be awarded by the teacher who taught the paper and the teacher concerned shall hand over within three days after end of the semester, the grades list to the Head of the Department who in turn shall handover, within the next three days, to the principal. The principal shall display grades on the notice board paper-wise and student-wise one week prior to the commencement of the semester examination. The original copy of the same, duly signed by the principal, shall be sent by the principal to the registrar (Evaluation) before the commencement of the semester examination.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.
- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to particular degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained at least 35% of marks in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 35% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages and non-core subjects) a whole. However, only those candidates who have passes each semester public examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. CONDITIONS TO KEEP TERMS:

- a) A candidate is allowed to carry all the previous uncleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/ remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediate successive examinations.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 100 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,h,i,j,k,l.	(Conceptual questions) Answer any TEN	(10 X 2 = 20 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any FOUR	(04 X 8 = 32 Marks)
SECTION-C: 7,8,9,10.	(Essay type questions) Answer any THREE	(03 X 16 = 48 Marks)
Total		100 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within 30 days after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
COURSE STRUCTURE 2012 - 13 Scheme
B.Com COURSE MATRIX

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
I	1.1	Language: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Additional English / Marathi/ Hindi	04	100
	1.2	Language: English	04	100
	1.3	Financial Accounting	04	100
	1.4	Market Behavior and Cost Analysis	04	100
	1.5	Organizational Management	04	100
	1.6	Corporate Administration / Methods and Techniques for Business Decisions.	04	100
II	2.1	Language - I	04	100
	2.2	Language - II	04	100
	2.3	Advanced Financial Accounting	04	100
	2.4	Marketing and Services Management	04	100
	2.5	Indian Financial System	04	100
	2.6	Quantitative Analysis for Business Decision-I	04	100
	2.7	Environmental Studies	04	100
III	3.1	Language: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Additional English / Marathi/ Hindi	04	100
	3.2	Language - II: a) English b) Soft Skills for Business	02 02	50 50
	3.3	Corporate Accounting	04	100
	3.4	Financial Management	04	100
	3.5	Banking Law and Operations	04	100
	3.6	Quantitative Analysis for Business Decision-II	04	100
	3.7	Computer Fundamentals	04	100
	UGC			
IV	4.1	Language - I	04	100
	4.2	Language - II: a) English b) Corporate Communication	02 02	50 50
	4.3	Advanced Corporate Accounting	04	100
	4.4	Cost Accounting	04	100
	4.5	e-Business and Accounting	04	100
	4.6	Stock and Commodity Markets	04	100
	4.7	Indian Constitution	04	100
V	5.1	Entrepreneurship Development	04	100
	5.2	International Business	04	100
	5.3	Income Tax - I	04	100
	5.4	Cost Management	04	100
	5.5	Elective - Paper-I	04	100
	5.6	Elective - Paper -II	04	100
VI	6.1	Legal Environment of Business / Business Regulations	04	100
	6.2	Principles of Auditing	04	100
	6.3	Income Tax - II	04	100
	6.4	Management Accounting	04	100
	6.5	Elective - Paper-III	04	100
	6.6	Elective - Paper -IV	04	100

ELECTIVE GROUPS

1. ACCOUNTING & TAXATION GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	International Financial Reporting Standards	04	100
	5.6	Business Taxation - I	04	100
VI	6.5	Business Taxation - II	04	100
	6.6	Accounting for Business Decisions	04	100

2. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	Advanced Financial Management	04	100
	5.6	International Finance	04	100
VI	6.5	Corporate Financial Policy	04	100
	6.6	Security Analysis & Portfolio Management	04	100

3. MARKETING GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	Consumer Behavior	04	100
	5.6	Marketing Research	04	100
VI	6.5	Advertising & Media Management	04	100
	6.6	Retail Management	04	100

4. INFORMATION & TECHNOLOGY GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	Accounting Information Systems	04	100
	5.6	Enterprise Resource Planning	04	100
VI	6.5	Information Technology And Audit	04	100
	6.6	Banking Technology and Management	04	100

5. HUMAN RESOURCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	Strategic Human Resource Management	04	100
	5.6	Human Resource Development	04	100
VI	6.5	Labor Welfare & Social Security	04	100
	6.6	Industrial Regulations	04	100

6. BANKING & INSURANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hour Per Week	Total Marks
V	5.5	International Banking & Forex Management	04	100
	5.6	Life & General Insurance	04	100
VI	6.5	Risk Management	04	100
	6.6	Marketing of Insurance Products	04	100

1.3 - FINANCIAL ACCOUNTING

OBJECTIVE

The objective of this course is to acquaint students with the accounting concepts, tools and Techniques influencing business organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

10 Hours

Introduction - Meaning and Definition - Objectives of Accounting - Functions of Accounting - Users of Accounting Information - Limitations of Accounting - Accounting Principles - Accounting Concepts and Accounting Conventions- problems on accounting equations.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM

14 Hours

Single entry system- Introduction - Meaning - Features - Merits - Demerits - Types. Conversion into Double Entry system - Need for Conversion - Preparation of Statement of Affairs - Cashbook - Memorandum Trading Account - Total Debtors Account - Total Creditors Account - Bills Receivable Account - Bills Payable Account - Trading and Profit & Loss Account - Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hours

Introduction - Meaning of Hire Purchase and installment purchase system- difference between hire purchase and installment purchase - Important Definitions - Hire Purchase Agreement - Hire Purchase Price - Cash Price - Hire Purchase Charges - Net Hire Purchase Price - Net Cash Price - Calculation of Interest - Calculation of Cash Price - Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only). Problems on hire purchase including default and complete repossession of goods.

Unit 4: ROYALTY ACCOUNTS

12 Hours

Introduction - Meaning - Technical Terms - Royalty - Landlord - Tenant - Minimum Rent - Short Workings - Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of a Lease - Treatment of Strike and Stoppage of work - Accounting Treatment in the books of Lessee and lessor - passing of journal entries and Preparation of necessary Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY

- 12 Hrs

Introduction - Need for conversion - Meaning of Purchase Consideration - Mode of Discharge of Purchase Consideration - Methods of calculation of Purchase Consideration - Net Payment Method - Net Assets Method - Passing of Journal Entries and Preparation of Ledger Accounts in the books of Vendor - Treatment of certain items - Dissolution Expenses - Unrecorded Assets and Liabilities - Assets and Liabilities not taken over by the Purchasing Company - Contingent liabilities - Non-assumption of trade liabilities - In the books of Company - Passing of Incorporation entries and preparation of balance sheet under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interest under Hire Purchase System.
- Draft Joint venture agreement with regard to any suitable situation

BOOKS FOR REFERENCE

- 1) Dr. S.N. Maheswari: Financial Accounting
- 2) B. S Raman: Financial Accounting
- 3) S P Jain and K. L. Narang: Financial Accounting- I
- 4) Radhaswamy and R.L. Gupta: Advanced Accounting
- 5) Jawaharlal & Seema Srivastava :Financial Accounting, HPH
- 6) Guruprasad Murthy: Financial Accounting
- 7) Dr. Anil Kumar, Dr. Rajesh Kumar, B.Mariyappa ; Financial Accounting.
- 8) S. Jayapandian: Financial Accounting from Zero.

1.4 MARKET BEHAVIOR AND COST ANALYSIS

Objective: To make the students familiar with concepts of market, market behaviour, and cost concepts for business analysis.

UNIT 1: FIRMS AND DECISIONS

06 HRS

Firm: meaning and goals, profit verses value (wealth) maximization dynamics. Decision making, decisions under market uncertainties, tactical verses strategic decisions and game theory.

UNIT 2: MARKET FORCES

10 HRS

Demand: meaning, law of demand, nature of elasticity of demand, determinants of elasticity of demand, cost of advertisement and derived demand relations, measurement of price elasticity under total outlay method. Demand forecasting- meaning and methods (problems on trend projection by least square method). Supply: Law of supply, determinants of supply.

UNIT 3: COST AND PROFIT PLANNING

Cost: meaning of short run and long run costs, fixed and variable costs, explicit and implicit costs, opportunity cost and incremental cost (concepts only). Total cost, average cost and marginal cost behavior in short run and long run (including problems on cost analysis). Analysis: BEP, BE Chart and calculation of margin of safety, P.V. ratio: profit planning (including problems on alternative cost and sales values).

UNIT 4: PRICING PRACTICES AND STRATEGIES

10 HRS

Determinants of pricing policy, pricing methods: marginal cost pricing, target rate pricing, product line pricing, administered pricing, competitive bidding, dual pricing, transfer pricing. Price discrimination: requirements, types and dumping strategies. Pricing over product life cycle: skimmed pricing, penetration pricing, product -line pricing and price leadership. Linear Programming: problems on profit maximization and cost minimization in graphic method with two variables only.

UNIT 5: COST OF CAPITAL AND CAPITAL BUDGETING

12 HRS

Meaning and types of capital, specific cost of capital on: debt, preference shares and equity shares and weighted average cost of capital (concepts only). Capital budgeting: meaning and significance, present value of money and its calculation, methods of investment appraisal (simple problems on PB period and NPV methods only).

SKILL DEVELOPMENT:

1. Draft the diagrammatic representation of each aspect of the chapter in a book under different chapters.
2. Select and discuss the case studies that will have impact on business decision making in each chapter.
3. A survey report on the demand forecasting for a product.
4. Student to choose a product and apply price elasticity in real situation.
5. Present a diagram showing business cycles.

References

1. P.L Mehta; *Managerial Economics*, Sultan Chand & Sons, New Delhi.
2. R.L Varshney and K.L Maheshewari; *Managerial Economics*, Sultan Chand & Sons, New Delhi.
3. H.L Ahuja; *Business Economics*, S. Chand & Company Ltd., New Delhi.
4. Venugopal / Monica : *Economics for Business*, I.K. International Publications.
5. Sanchethi & Kapoor; *Business Mathamatics*, Sultan Chand & Sons, New Delhi.
6. K.P.M Sundaram; *Micro Economics*, Sultan Chand & Sons, New Delhi.
7. M.L. Agarwal; *Business Mathamatics*, Sultan Chand & Sons, New Delhi.
8. D.M. Mithani; *Managerial Economics*, Himalaya Publishing House, New Delhi.
9. M.L. Jhingan & J.K. Stephen; *Managerial Economics*, Vrinda Publishihing (P) Ltd. Delhi.
10. Manoj Kumar Mishra ; *Managerial Economics*, Voyu Education of India, New Dehli.
11. Khan and Jain; *Financial Management*, Tata McGraw Hill Education Private Ltd., New Delhi
12. R.K. Sharma and S.K. Gupta; *Financial Management*, Kalyani Publications, Ludiana.
13. Reddy and Appananiah ; *Economics for Business*.
14. Karma Pal : *Managerial Economics*, Excel Books.

1.5 – ORGANISATIONAL MANAGEMENT

OBJECTIVE

To familiarize the students with concepts and principles of Management Process and Human Resource Management.

Unit 1: INTRODUCTION TO MANAGEMENT

12 Hours

Introduction – Meaning – Nature and characteristics of Management – Scope of Management – Management and Administration – Principles of Management – Social responsibility of management and Ethics.

Unit 2: MANAGEMENT PROCESS

14 Hours

Introduction – Management process – Planning – Meaning and Definition – Nature – Objectives – Types of Plans – Importance of Planning. Organization – Nature – Principles – Types of Organization – Purpose of Organization.

Unit 3: HUMAN RESOURCE MANAGEMENT

10 Hours

Introduction – Meaning of HRM – Objectives of HRM – Importance of HRM – Functions and Process of HRM – HR Manager Duties and Responsibilities – Recent trends in HRM.

Unit 4: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION

14 Hours

Meaning – Importance of Human Resource Planning – Benefits of Human Resource Planning. Recruitment – Meaning – Methods of Recruitment. Selection – Meaning – Steps in Selection Process – Problems Involved in Placement.

Unit 5: HUMAN RESOURCE DIRECTING, MOTIVATING & CONTROLLING

10 Hours

Directing, meaning & nature of directing, theories of motivation & leadership style, controlling – meaning – Essentials of a sound control system.

SKILL DEVELOPMENT

- Different types of Organization Charts (structure).
- Chart on Staffing.
- Visit any organization & list out the duties and responsibilities of modern HR Manager
- Visit any organization & identify the various methods of performance appraisal.
- Chart on sources of recruitment.
- Draft Control chart for different industry / business groups.

BOOKS FOR REFERENCE

1. Koontz & O'Donnell, Management.
2. Appaniah & Reddy, Essentials of Management.
3. L M Prasad, Principles of management.
4. Rustum & Davar, Principles and practice of Management.
5. Sharma & Shashi K Guptha – Principles of Management
6. Rajkumar : Human Resource Management, I.K. International
7. Dr. K. Aswathappa , Human Resource Management.
8. P Subba Rao , Human Resource Management
9. T Ramaswamy; Principals of Management.
10. J.D Tripathi ; The Power of Managing Time.
11. Rekha & Vibha –Business Management.
12. VSP Rao-Organisational Behaviour

1.6 CORPORATE ADMINISTRATION

OBJECTIVE

To enable the students to get familiarized with the existing Company Law and Secretarial Procedure.

Unit 1: JOINT STOCK COMPANY

18 Hours

Introduction – Meaning and Definition – Features – Kinds of Companies. Companies Act 1956 – objectives & features. Steps in formation of joint stock companies - Promotion stage – meaning & functions of promoter - incorporation stage – meaning & contents of Memorandum of Association & Articles of Association, distinction between Memorandum of Association and Articles of Association Subscription stage – Meaning & contents of prospectus, statement in lieu of prospects, book building.

Unit 2: CAPITAL OF COMPANY

12 Hours

Share Capital – Meaning of Shares – Kinds of Share – Distinction between equity & preference shares. Debentures – Meaning – Features – Types – Merits and Demerits. SEBI guidelines for issue of shares & debentures.

Unit 3: COMPANY ADMINISTRATION

14 Hours

Board of Directors – appointment – powers - duties & responsibilities. Managing Director – appointment – powers – duties & responsibilities. Secretary - Meaning, qualification, appointment, position, rights duties, liabilities & removal.

Unit 4: CORPORATE MEETINGS

10 Hours

Meaning and Definition – Types of Meeting – requisites of a valid meeting - Statutory Meeting – Annual General Meeting – Extraordinary General Meeting – Board Meeting and Resolutions.

Unit 5: GLOBAL COMPANIES

06 Hours

Meaning – types – features – administration.

SKILL DEVELOPMENT

- Drafting of Memorandum of Association, Drafting Articles of Association.
- Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
- Drafting Resolutions of various meetings – different types.
- Chart showing Company's Organization Structure.
- Chart showing different types of Companies.

BOOKS FOR REFERENCE

1. M.C. Shukla & Gulshan: Principles of Company Law.
2. N.D. Kapoor: Company Law and Secretarial Practice.
3. M.C. Bhandari: Guide to Company Law Procedures.
4. S.C. Kuchal: Company Law and Secretarial Practice.
5. S.C. Sharma : Business Law, I.K. International Publishers
6. Dr. P.N. Reddy and H.R. Appanaiah: Essentials of Company Law and Secretarial Practice, Himalaya Publishers.
7. S.N Maheshwari ;Elements of Corporate Law
8. C.L Bansal: Business and Corporate Law

1.6 METHODS AND TECHNIQUES FOR BUSINESS DECISIONS

OBJECTIVE

To provide basic knowledge of mathematics and statistics and their application to commercial situations.

Unit 1: NUMBER SYSTEM

06 Hrs

Introduction - Natural Numbers - Even Numbers - Odd Numbers - Integers - Prime Numbers - Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems).

Unit 2: THEORY OF EQUATIONS

10 Hrs

Introduction - Meaning - Types of Equations - Simple Linear and Simultaneous Equations (only two variables), Elimination and Substitution Methods only. Quadratic Equations - Factorization and Formula Methods ($ax^2 + bx + c = 0$ form only). Problems on Commercial Application.

Unit 3: MATRICES AND DETERMINANTS

14 Hrs

Meaning - types - operation on matrices - addition - subtraction - multiplication of two matrices - transpose - determinants - minor of an element - co-factor of an element - inverse - crammers rule in two variables - application oriented problems.

Unit 4: COMMERCIAL ARITHMETIC

18 Hrs

Simple interest, compound interest including half yearly and quarterly calculations, annuities, Percentages, bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. Proportions: third, fourth and inverse proportion - problems.

Unit 5: ACCOUNTING RATIO'S AND PROGRESSIONS

12 Hrs

RATIO'S: Ratio's of profit & loss account and balance sheet: GP ratio, net profit ratio, operating ratio, operating profit ratio, debt equity ratio, fixed assets turnover ratio, total assets turnover ratio, current ratio, liquid ratio, acid test ratio, debtors & creditors turnover ratio. PROGRESSIONS: Introduction - Arithmetic Progression - Finding the n^{th} term of AP and Sum to n^{th} term of AP. Insertion of Arithmetic Mean in given terms of AP and representation of AP. Geometric Progression - finding the ' n ' th term and sum to ' n ' the term of GP.

Skill Development:

- Develop an Amortization Table for Loan Amount - EMI Calculation.
- Secondary overhead distribution using Simultaneous Equations.
- Preparation of Bank Statement.
- List of Laws of Indices and Logarithms.

Books for Reference:

- Saha: *Mathematics for Cost Accountants*.
- Dr. Sancheti & Kapoor: *Business Mathematics and Statistics*.
- Zamarudeen: *Business Mathematics*.
- Madappa, mahadi Hassan, M. Iqbal Taiyab - *Business Mathematics*.
- G.R. Veena and Seema : *Business Mathematics and Statistics I.K. Intl Publishers*
- Maheshwari - *Financial Management*.
- R.k. Sharma and shashi K. Gupta - *Financial Management*.
- Saha & Others *Business Mathematics*
- R.S Bhardwaj : *Mathematics for Economics & Business*

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE

The objective of this course is to provide a brief idea about the framework of certain allied aspects of accounting treatment.

Unit 1: ACCOUNTING STANDARDS

8 Hrs

Introduction - Meaning - Definition - Need - Significance - An Overview of Indian Accounting Standards - AS-2, AS-3, AS-6, AS-10, AS-14, AS-20 & AS-21 (Theory Only).

Unit 2: INSURANCE CLAIMS

12 Hrs

Introduction - Need - Loss of Stock Policy - Steps for ascertaining Fire insurance claim - Treatment of Salvage - Average Clause - Treatment of Abnormal Items - Computation of Fire insurance claims.

Unit 3: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction - Meaning - Consigner - Consignee - Goods Invoiced at Cost Price - Goods Invoiced at Selling Price - Normal Loss - Abnormal Loss - Valuation of Stock - Stock Reserve - Journal Entries - Ledger Accounts in the books of Consigner and Consignee.

Unit 4: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction - Meaning - Objectives - Distinction between joint venture and consignment - Distinction between joint venture and partnership - maintenance of accounts in the books of co-venturers - maintaining separate books for joint venture - preparation of memorandum joint venture - problems.

Unit 5: BRANCH ACCOUNTS

16 Hrs

Introduction - Meaning - Objectives - Types of Branches - Dependent Branches - Features - Supply of Goods Price at Cost Price - Invoice Price - Branch Account in the books of Head Office (Debtors System Only). Independent Branches - Features - Incorporation of Branch Trial balance in Head Office Books - Adjustment Entries in Ho books only - Purchase of Branch Fixed Asset - Depreciation of Branch Fixed Asset - Share of Head Office Expenses - Goods in Transit - Cash in Transit - Inter branch Transactions

SKILL DEVELOPMENT

- Prepare the list of Indian Accounting Standards
- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- Collecting the details regarding the fire insurance claim settlement of a particular Case and recording the important points.
- List out the basis of Apportionment of Revenue Items of a departmental undertaking.

BOOKS FOR REFERENCE:

1. Dr. S.N. Maheswari, *Financial Accounting*
2. B. S Raman, *Financial Accounting*
3. S P Jain and K. L. Narang, *Financial Accounting- I*
4. Radhaswamy and R.L. Gupta, *Advanced Accounting*
5. R.L. *Advanced Financial Accounting.*
6. M.C. Shukla and Grewel, *Advanced Accounting.*
7. Arulanandam & Raman; *Advanced Accountancy*
8. A Bannerjee; *Financial Accounting.*

2.4 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE: To familiarize the students with the principles of marketing and focus them towards marketing and management of services

Unit 1: INTRODUCTION TO MARKETING - 12 Hours
Meaning and definition - Goals - Concepts of Marketing - Approaches to Marketing - Functions of Marketing. RECENT TRENDS IN MARKETING - e-business - Tele-marketing - M-Business - Green Marketing - Retailing, Relationship Marketing - Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT - 12 Hours
Meaning - demographic - economic - natural - technological - political - legal - socio-cultural environment. MARKET SEGMENTATION AND CONSUMER BEHAVIOUR - Meaning & Definition - Bases of Market Segmentation - Consumer Behaviour - Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX - 16 Hours
Meaning - elements - PRODUCT - product mix, product line, product life cycle - product planning - new product development - branding - packing and packaging. PRICING - factors influencing pricing, methods of pricing (only meaning), and pricing policy - PHYSICAL DISTRIBUTION, meaning, factors affecting channels, types of marketing channels; PROMOTION - meaning and significance of promotion - personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICE MANAGEMENT - 10 Hours
Meaning of services - characteristics of services - classification of services - marketing mix in service industry - growth of service sector. Service processes - Designing the service process - service blueprint - back office & front office processes.

UNIT 5: SERVICE SECTOR MANAGEMENT - 10 Hours
Tourism and Travel Services - concept, nature, significance and marketing. Health Care services - concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the producer of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Philip Kotler - Marketing Management
2. J.C. Gandhi - Marketing Management
3. Stanton W.J. et al Michael & Walker, Fundamentals of Management.
4. P N Reddy & Appanniah, Essentials of Marketing Management.
5. Sontakki, Marketing Management.
6. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition 2001.
7. Cengiz Haksever et al - 'Service Management and Operations'; Pearson Education.
8. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
9. Usha Devi, Bhargavi, Jyothi-Service Management.
10. K. Karunakaran; Marketing Management.
11. Jayachandran ; Marketing Management.

2.5 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this course is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

12 Hrs

Types of banking and non-banking financial institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Meaning and scope of Mutual Funds.

Unit 3: COMMERCIAL BANKS

8 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

12

Hrs

Introduction. RBI – Organization – Objectives – Role and Functions. The Securities – Exchange Board of India – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

12

Introduction – Meaning – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance; housing & vehicle.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Market.
- Draft the application forms for opening a Fixed, Current and Savings Bank A/cs.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Meir Kohn: Financial Institutions and Markets, Tata McGrah Hill
2. L M Bhole: Financial Institutions and Markets, Tata Mcgrah Hill
3. Vasantha Desai: The Indian Financial System, HPH.
4. M Y Khan: Indian Financial System, TMH
5. D.K. Murthy and Venugopal.: Indian Financial System I.K. International Publishers
6. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
7. E Gardon & K Natarajan: Financial Markets & Services.
8. G. Ramesh Babu; Indian Financial System. HPH
9. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
10. A Datta ; Indian Financial System, Excel Books

2.6 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS-I

OBJECTIVE

To provide basic knowledge of mathematics and statistics and their application to commercial situations.

Unit 1: INTRODUCTION TO STATISTICS

05 Hrs

Meaning and Definition – Functions – Scope – Limitations.

Unit 2: TABULATION AND PRESENTATION OF DATA

10 Hrs

Collection of data - census and sample techniques. Classification of data, preparation of frequency distribution and tabulation of data. Importance of graphic and diagrammatic presentation, Types of diagrams – one dimensional, two dimensional, percentage bar diagrams and pie diagrams.

Unit 3: MEASURES OF CENTRAL TENDENCY

20 Hrs

Introduction – Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (using direct & step deviation method only & excluding missing frequency problems). Graphical representation of median and mode – ogives, histograms, smoothed frequency curve, frequency polygon.

Unit 4: MEASURE OF DISPERSION AND SKEWNESS

15 hrs

Introduction – Meaning & Definition – Methods of dispersion: Standard Deviation and Coefficient of Variation. Skewness: meaning, uses, and problems on Karl Pearsons' coefficient of skewness.

Unit 5: INDEX NUMBERS

10 Hrs

Meaning & Definition – uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (excluding TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

- Collect the age statistics of 10 married couples and compute correlation coefficient.
- Collect the age statistics of 10 newly married couples and compute regression equations. Estimate the age of bride when age of bridegroom is given.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate cost of living index.
- Collect the turnover of a company for 7 years and predict the sales of 8th year by using method of least square.

BOOKS FOR REFERENCE

1. S P GUPTA: Statistical Methods- Sultan Chand, Delhi
2. Dr. B N GUPTA: Statistics (Sahitya Bhavan), Agra.
3. S.C GUPTA: Business Statistics.
4. N.V.R Naidu : Operation Research I.K. International Publishers
5. ELLAHANCE : Statistical Methods
6. SANCHETHI AND KAPOOR: Business Mathematics
7. Veerachamy: Operation Research I.K. International Publishers
8. Anand Sharma : Statistics For Management, HPH
9. S. Jayashankar Quantitative Techniques for Management.
10. D.P Apte ; Statistical Tools for Managers.

3.2 (part -B) SOFT SKILLS FOR BUSINESS

Objective

To create an awareness of the soft skills required to plan and pursue a career and also to empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

06 Hours

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – how to build positive attitude – effects of negative attitude and how to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hours

Meaning of Vision – doing things for the right purpose – Setting and achieving goals – importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of stress management and Time Management.

Unit 3: CREATIVITY

06 Hours

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

08 Hours

Significance – process of communication – forms of communication – Communication Gap – listening skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparing students for GD & Interview.

Unit 5: Career Planning

04 Hours

Awareness of carrier, Sources of Information, Choosing a carrier and carrier counseling.

PRACTICALS:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise, Role play.

BOOKS FOR REFERENCE:

1. Collins: Public Speaking
2. Mair : Art of Public Speaking
3. V.N. Ahuja.: The World's Famous Speeches
4. Daniel Goleman : Emotional Intelligence
5. Jyotsna Codety :Understanding Emotional Intelligence .
6. Dalip Singh :Emotional Intelligence at Work .
7. B.Husluck :Personality Development – Elizabeth.
8. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
9. Allen Bease :Body Language .
10. Tanushree Pooder :Fit and Fine Body and Mind
11. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
12. Dr. partho Pratim Roy :Business Communications – The Basics
13. Sajitha Jayaprakash :Technical Communication
14. Rajkumar: Basic of Business Communication
15. B. Das / I Satpathy: Business Communication & Personality Development.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this course is to enable the students to have a comprehensive awareness about the provisions of the company's Act and corporate accounts.

Unit 1: ACQUISITION OF BUSINESS OF NON-CORPORATE ENTITIES

Introduction – calculation of purchase consideration – journal entries, ledger accounts and balance sheet in the books of the company under same set of books.

Unit 2: PROFIT PRIOR TO INCORPORATION

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – ascertainment of pre-incorporation and post-incorporation profits by preparing profit and loss account – balance sheet.

Unit 3: VALUATION OF GOODWILL

10 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method. Problems.

Unit 4: VALUATION OF SHARES

10 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value Method. Rights Issue and Valuation of Rights Issue. Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts – Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form – calculation of managerial remuneration.

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect a Prospectus of a company and identify the its salient features.
- List the various functions of Underwriters.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the net Asset value of shares
- List out the conditions to be fulfilled for redemption of Preference shares.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari, *Financial Accounting*.
2. S. P. Jain and K. L. Narang – *Corporate Accounting*
3. SP Iyengar, *Advanced Accountancy*.
4. R L Gupta, *Advanced Accountancy*.
5. S. Bhat- *Corporate Accounting*.
6. Arulanandam & Ramian ; *Corporate Accounting –II*
7. Anil Kumar , Mariyappa & Rajesh – *Corporate Accounting*.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

To enable students to understand the basic concepts of financial management and the role of financial management in decision-making.

Unit 1: FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of finance department – Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of a Sound Financial Planning.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Even Flow – Uneven Flow & Annuity) – Present Value (Even Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares – Simple Problems.

Unit 3: FINANCING DECISION

14 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

18 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return. Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends.

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function
- Illustrate operating cycle for at least 2 companies of your choice.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Prepare an aging schedule of debtors with imaginary figures.
- Capital structure analysis of companies in different industries

BOOKS FOR REFERENCE

1. S N Maheshwari, *Financial Management*.
2. Khan and Jain, *Financial Management*.
3. Sharma and Sashi Gupta, *Financial Management*.
4. I M Pandey, *Financial Management*.
5. Prasanna Chandra, *Financial Management*.
6. G. Sudarshan Reddy, *Financial Management*.
7. M. Gangadhar Rao & Others, *Financial management*
8. Kulkarni & SathyaPrasad; *Financial Management*.
9. P.K Simha – *Financial Management*.
10. S. Bhat- *Financial Management*.

3.5 BANKING LAW AND OPERATIONS

OBJECTIVE

To familiarize the students to understand the law and practice of banking.

Unit 1: BANKER AND CUSTOMER RELATIONSHIP

08 Hrs

Introduction – Meaning of Banker – Meaning of Customer – General & Special Relationships.

Unit 2: NEGOTIABLE INSTRUMENTS

12 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques – Crossing of cheques – types of crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 3: BANKING OPERATIONS

20 Hrs

Collecting Banker – Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course – Statutory Protection to Collecting Banker

Paying Banker – Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheque.

Lending Banker: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

14Hrs

Types of Customers and Account Holders – Procedure and Practice in opening and conducting of account of different customers including minors – meaning & operation of Joint Account Holders, Partnership Firms, Joint Stock companies, executors and trustees, clubs and associations and joint Hindu family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGC, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Past specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Tannan M.L: *Banking Law and Practice in India.*
2. Sheldon H.P: *Practice and Law of Banking.*
3. Kothari N. M: *Law and Practice of Banking.*
4. Maheshwari. S.N.: *Banking Law and Practice.*
5. Shekar. K.C: *Banking Theory Law and Practice.*
6. Gordon & Natarajan, *Banking Theory Law and Practice*
7. S. P Srivastava ; *Banking Theory & Practice*
8. S. Vipradas & j. K Syan ; *Bank Lending*
9. Gajendra & poddar : *Law and Practice of Banking*
10. Neelam C Gulati : *Principles of Banking Management.*

3.6 QUANTATIVE ANALYSIS FOR BUSINESS DECISIONS-I

Objective: To train the students with statistical techniques for their application in business decisions.

Unit 1: CORRELATION AND REGRESSION ANALYSIS 13 Hrs
Correlation: Meaning - Uses - Types - Karl Pearson's coefficient of correlation - probable error & Spearman's Rank Correlation (using actual mean and Excluding bivariate and Multi correlation). Regression: Meaning, Uses, Regression lines, regression Equations, regression coefficients (using actual mean method only).

Unit 2: TIME SERIES 10 Hrs
Introduction - Meaning - Uses - Components of Time Series - Computation of Trend Values & graphical presentation under the Method of Least Squares (Excluding simultaneous equation method).

Unit 3: INTERPOLATION AND EXTRAPOLATION 12 Hrs
Meaning - Significance - Assumptions. Methods of Interpolation - Binomial expansion (in case of missing values, only two missing values) - Newton's method of advancing differences.

Unit 4: SAMPLING AND SAMPLING DISTRIBUTION 10 Hrs
Meaning, types: purposive sampling, Random sampling, simple sampling, stratified sampling, parameter and statistic. Sampling distribution - standard error (Simple problems on determination of sample size).

Unit 5: THEORY OF PROBABILITY 10 Hrs
(Simple Problems only)

BOOKS FOR REFERENCE

1. S P GUPTA: *Statistical Methods*- Sultan Chand, Delhi
2. S C Guptha and V K Kapoor, *Fundamentals of Mathematical Statistics*
3. G C Beri, *Statistics for Management*.
4. Dr. B N GUPTA: *Statistics (Sahitya Bhavan)*, Agra.
5. Veerachamy: *Operation Research I.K. International Publishers*
6. ELLAHANCE : *Statistical Methods*
7. *Quantitative Techniques for Managerial Decisions*, U K Srivastava, G V Shenoy,
8. S C Sharama, *New Age International Publishers*.
9. C.R Reddy , *Quantitative Techniques for Management Decisions*
10. S. Jaishankar: *Quantitative Techniques for Managers*

3.7 COMPUTER FUNDAMENTALS

OBJECTIVES

To provide basic knowledge of Computer and its Usage.

Unit 1: INTRODUCTION TO COMPUTERS

General features of a Computer – Generation of Computers – Personal Computer – Workstation – Mainframe Computer and Super Computers. Computer Applications – Data Processing – Information Processing – Commercial – Office Automation – Industry and Engineering – Healthcare – Education – Graphics and Multimedia.

Unit 2: COMPUTER ORGANIZATION

Central Processing Unit – Computer Memory – Primary Memory – Secondary Memory – Secondary Storage Devices – Magnetic and Optical Media – Input and Output Units – OMR – OCR – MICR – Scanner – Mouse – Modem.

Unit 3: COMPUTER HARDWARE AND SOFTWARE

Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and Computer security. Elements of MS DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of database and its applications.

Unit 4: MICROSOFT OFFICE

Word processing and electronic spread sheet. An overview of MS WORD, MS EXCEL and MS POWERPOINT. Elements of BASIC programming. Simple illustrations.

Unit 5: COMPUTER NETWORKS

Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications.

LIST OF PRACTICAL ASSIGNMENTS: (12 Sessions of 2 hours each)

- System use, keyboard, mouse operations. Word pad and paint brush.
- Creating a folder and saving a document – 2 sessions.
- Simple MS. DOS commands – 1 Session
- Windows operating system – icons, menus and submenus, my computer – 2 sessions
- Desktop publishing – preparation of a document using MS.WORD – 2 sessions
- Installation of a software, virus scanning – illustrations – 1 session.
- Spreadsheet calculations using MS.EXCEL – 1 session.
- BASIC programming – illustrations – 1 session.
- Internet use. Surfing, browsing, search engines, E-mail. – 2 sessions.

BOOKS FOR REFERENCE:

- Alexis Leon and Mathews Leon (1999): *Fundamentals of information technology*, Leon Techworld Pub.
- Jain, S.K. (1999): *Information Technology "O" level made simple*, BPB Pub.
- Jain, V.K. (2000): *"O" Level Personal Computer Software*, BPB Pub.
- Rajaraman, V. (1999): *Fundamentals of Computers*, Prentice Hall India.
- Hamacher, *Computer Organisation*, Mc Graw.
- Archanakumar – *Computer Basics with office automation*, I.K. International Publishers.
- Sinha, *Computer Fundamentals*, BPB Pub.
- C.S. V Murthy *Fundamentals of Computers*, HPH
- G.V Anjaneyulu – *Computer Organisations*
- Saha & Saha – *Computer Fundamentals*
- D. Sharma – *Foundations of IT*

4.2(B) CORPORATE COMMUNICATION

OBJECTIVE

To train the students in drafting various correspondence for different functions of Business

Unit 1: PERSONNEL CORRESPONDENCE

06 Hrs

Letters calling candidates for written test, drafting interview letters, offer of appointment, order of appointment, show cause notices, letters of dismissal and discharge.

Unit 2: SECRETARIAL CORRESPONDENCE

06 Hrs

Correspondence with shareholders and debenture holders relating to dividends and interest, transfer and transmission of shares.

Unit 3: INTER-DEPARTMENTAL COMMUNICATION

06 Hrs

Internal memos, office circulars, office orders, Communication with regional/branch offices.

Unit 4: MODERN COMMUNICATION DEVICES

06 Hrs

Internet, teleconferencing, Mobile Phones, Computers, Laptops, Close circuit TVs, Desktop Publishing, Electronic Mail (e-mail), SMS Messages, Audio Conferencing, Video Conferencing, E-Commerce, Fax, Photocopying, Printing, Electronic Storage Devices.

Unit 5: Public Relations

06 Hrs

Meaning, importance and Elements of Public relations; Corporate Brand Building, Image Management, Event Management and Media Management.

BOOKS FOR REFERENCE

1. R.O. Sharma & Krishna Mohan: *Business Communication & Report Writing*, TMH, New Delhi.
2. Raman. S & Swami. R: *Business Communication – A Practical Approach*, Professional Publications, Madras.
3. Ramesh & Pattanashetti: *Effective Business English & Correspondence*.
4. Majumdar: *Commercial Correspondence*.
5. Pink and Thomsan: *English Grammar, Composition and Correspondence*.
6. R.K. Madhukar : *Business Communications*, Vikas.
7. Bhardwaj : *Fundamental of Business Communication*, I.K. International Publishers
8. Kumar: *Business Communication*.
9. Bovee: *Business Communication Today*.
10. Sharma & others – *Business Communications*.
11. Rai Rai : *Business Communication*, HPH, Mumbai
12. Ritwik Haldar ; *AT.B of Business Communication*
13. Sehgal/ Khetarpal- *Business Communication*

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

This course enables the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition - Types of Amalgamation - Amalgamation in the nature of Merger - Amalgamation in the nature of Purchase - Methods of Purchase Consideration - Calculation of Purchase Consideration (AS14) - Accounting for Amalgamation - Pooling of Interest Method and Purchase Method - Entries and Ledger Accounts in the Books of Transferor Company and Entries and Preparation of Balance Sheet in the books of Transferee Company.

Unit 2: INTERNAL RECONSTRUCTION

08 Hrs

Meaning - Objective - Procedure - Form of Reduction - Passing of Journal Entries - Preparation of Balance Sheet after Reconstruction. Simple Problems.

Unit 3: LIQUIDATION OF COMPANIES

14 Hrs

Meaning - Types of Liquidation - Order of Payment - Calculation of Liquidator's Remuneration - Preparation of Liquidator's Final Statement of Account.

Unit 4: HOLDING COMPANY ACCOUNTS

14 Hrs

Introduction - Meaning of Holding Company - Subsidiary Company - Steps - Pre-Acquisition Profits - Post Acquisition Profits - Minority Interest - Cost of Control or Capital Reserve - Unrealized Profit - Mutual Indebtedness - Preparation of Consolidated Balance Sheet (As per AS21).

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING

Human Resource Accounting - Environmental Accounting - Social Responsibility Accounting - Accounting for Intangible Assets. (Theory only).

SKILL DEVELOPMENT

- Calculation of Purchase consideration with imaginary figures
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies
- List out legal provisions in respect of internal reconstruction.
- Narrate the steps for preparation of consolidated balance sheet.
- Calculate minority interest and goodwill with imaginary figures.

BOOKS FOR REFERENCE

1. S.N. Maheswari, *Financial Accounting*.
2. RL Gupta, *Advanced Accountancy*.
3. Patil Korlahalli, *Financial Accounting*.
4. Jain and Narang, *Corporate Accounting*.
5. Tulsian, *Advanced Accounting*.
6. Dr. Anil Kumar, Dr. Rajesh Kumar, B. Mariyappa : *Corporate Accounting-II*.
7. Arulanandam & Raman ; *Corporate Accounting-II*
8. K.K Verma - *Corporate Accounting*.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing – Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts – Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

15 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Setting of Stock Levels – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting – Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method – Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour – Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

15 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption – Machine Hour Rate – Problems.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

10 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Classification of costs incurred in the making of a product.
- Identification of elements of cost in services sector.
- Cost estimation for the making of a proposed product.
- Documentation relating to materials handling in a company.
- Collection and Classification of overheads in an organization.
- Developing a case for reconciliation.

BOOKS FOR REFERENCE

1. N.K. Prasad: *Cost Accounting*
2. Nigam & Sharma: *Cost Accounting*
3. Khanna Pandey & Ahuja – *Practical Costing*
4. M.L. Agarwal: *Cost Accounting*
5. Jain & Narang: *Cost Accounting*
6. Palaniappan and Hariharan : *Cost Accounting I.K. International Publishers*
7. S.P. Tyengar: *Cost Accounting*
8. S.N. Maheshwari. *Cost Accounting*
9. M. N. Arora: *Cost Accounting*
10. Dutta: *Cost Accounting*
11. P. K Sinha *Accounting & Costing for Managers.*

4.5 E-BUSINESS AND ACCOUNTING

UNIT 1. e-BUSINESS

10 Hours

Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/Disadvantages of e-commerce, web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. Hardware and Software for E-Business

05 Hours

Web server hardware and software – software for web servers, Website and internet utility programs, Web server hardware, web hosting choices – electronic commerce software – shopping cart.

Unit 3: Getting started with Tally

05 Hours

What is Tally? Using Tally Software: introduction and installation, Required Hardware, Preparation for installation of tally software, installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, New Company, Other information, Company features and inventory features.

Unit 4: Configuring Tally

10 Hours

General, Number symbols, accts/inv info menu, voucher entry, invoice/orders entry and printing, security issue. *Working in Tally:* Making Ledger Accounts, writing voucher, voucher entry, making different types of voucher, correcting sundry debtors and sundry creditor's accounts, preparation of Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: Reports in Tally:

10 Hours

Output reports, basic features of displaying reports, printing reports, other printing options, display account bookstand statements, viewing cash/bank books, configure balance sheet, columnar balance sheet, show fortnightly balance sheet, integrate accounts with inventory, display profit and loss account.

REFERENCE BOOKS

1. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
2. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
3. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
4. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
5. Srivatsava: E.R.P, I.K. International Publishers
6. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
7. *Tally for Enterprise Solutions* –
8. C.S.V Murthy- *E Commerce*, HPH
9. P. Diwan / S. Sharma – *E – Commerce*

4.6. STOCK AND COMMODITY MARKETS

Objective: To provide students with a conceptual framework of stock markets and commodity markets, functionalities in these markets and their mode of trading.

- 1. AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hours**
Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of commodities and Commodities market, differences between stock market and commodities market.
- 2. STOCK MARKET: 12 Hours**
History, Membership, Organisation, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: meaning, types (in brief).
- 3. TRADING IN STOCK MARKET: 14 Hours**
Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd. (NSDL), Central Securities Depository Ltd. (CSDL) (in brief).
- 4. COMMODITIES MARKET: 14 Hours**
History, Membership, objectives, functions of commodities exchange, Organisation and role of a commodity exchange, Governing Body, Types of Transactions to be dealt in commodity Market – physical market, Futures market – Differences between Physical & Future Market, options on commodities exchanges.
- 5. TRADING IN COMMODITY MARKETS: 10 Hours**
Patterns of Trading & Settlement, Efficiency of Commodity Markets – Size of Commodity

SKILL DEVELOPMENT

1. Prepare the list of recognized stock exchanges in India
2. Prepare the process chart of online trading of share and debentures.
3. Prepare the chart showing Governing Body of the Commodities Market.
4. Prepare the list of commodities traded on commodity market.
5. Enlist the role of NSDL and CSDL.

Reference Books:

- a) Gurusamy, *Financial Markets and Institutions*, 3rd edition, Tata McGraw Hill.
- b) Saunders, *Financial Markets and Institutions*, 3rd edition, Tata McGraw Hill.
- c) Khan, *Indian Financial Systems*, 6th edition, Tata McGraw Hill
- d) Bhole, L.M. (2000), *Indian Financial Institutions, Markets and Management*, McGraw Hill, New York.
- e) Srivastava R.M ; *Management of Indian Financial Institutions*
- f) Pallavi Modi : *Equity – The Next Investment Destination*
- g) B. Kulkarni – *Commodity Markets & Derivatives*.

5.1 ENTREPRENEURSHIP DEVELOPMENT

Objective: To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur – Factors influencing Entrepreneurship – Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

14 Hrs

Definition – Meaning – Product Range – Capital Investment – Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems – Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

16 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, technical, Market and social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI – Non-financial assistance from DIC, SISI, AWAKE, KVIC – Financial incentives for SSI's and Tax Concessions – Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance – Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license to the SS Unit, You propose to start.
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Mark. J. Dollinger, *Entrepreneurship – Strategies and Resources*, Pearson Edition.
2. Udai Pareek and T.V. Rao, *Developing Entrepreneurship*
3. S.V.S. Sharma, *Developing Entrepreneurship, Issues and Problems*
4. Srivastava, *A Practical Guide to Industrial Entrepreneurs*
5. Anil Kumar: *Small Business and Entrepreneurship* I.K. International Publishers
6. Government of India, *Report of the committee on Development of small and medium entrepreneurs, 1975*
7. Bharusali, *Entrepreneur Development*
8. Vasanth Desai, *Management of Small Scale Industry*
9. Satish Taneja ; *Entrepreneur Development*
10. Vidya Hattangadi ; *Entrepreneurship*
11. Dr. Venkataramanappa ; *Entrepreneurial Development*
12. B. Janakiraman , Rizwana M: *Entrepreneurship Development*
13. N.V.R Naidu : *Entrepreneurship Development, I.K. International Publishers*

5.2 INTERNATIONAL BUSINESS

OBJECTIVE

The objective of this subject is to facilitate the students in understanding of International Business in a multi cultural world.

Unit 1: INTRODUCTION TO INTERNATIONAL BUSINESS 12 Hrs

Meaning and Definition - Nature - Forms of International Business - Approaches to International Business - Theories of International Trade - Mode of entry into international business

Unit 2: GLOBALIZATION 12 Hrs

Meaning and Definition - Features - Stages - Manifestation of Globalization - Essential Conditions for Globalization - Advantages and Disadvantages - India and Globalization.

Unit 3: ROLE OF MNCs IN INTERNATIONAL BUSINESS 12 Hrs

Meaning and Definitions - Distinction between Domestic & Foreign Companies - Types of MNCs - Organizational Structure of MNCs - Role of MNCs in the development of international business - Role of MNCs in the development of Indian business.

Unit 4: INTERNATIONAL MARKETING INTELLIGENCE 12 Hrs

Meaning - International Marketing Information - Source of Information - International Marketing Information System - International Marketing Research - Application of International Marketing Information.

Unit 5: EXIM TRADE 12 Hrs

Export Trade: Procedure, Steps & Documentation, Direction of India's Export Trade - Export Financing.

Import Trade: Procedure, Steps, Documentation. EXIM Policy - EXIM Finance: EXIM Bank, Commercial Banks.

Foreign Exchange Settlements: Mode and Procedure of settlements.

SKILL DEVELOPMENT

- List any three MNC's operating in India along with their products or services offered.
- Prepare a chart showing currencies of different countries
- Tabulate the foreign exchange rate or at least 2 countries for 1 month
- Collect and Paste any 2 documents used in Import and Export trade.

BOOKS FOR REFERENCE

1. Dr. Aswathappa *International Business*, Himalaya Publishing House.
2. Francis Cherunilam; *International Business*, Prentice Hall of India
3. P. Subba Rao - *International Business* - HPH
4. Jyothi - *International Business*.
5. Anagai, Cheema & Others ; *Glimpses of Emerging Trends in Trade and Development*.
6. P.K Sinha & S.Sinha - *International Business Management*.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provision of Income Tax Act relating to computation of Income of individual assessee.

Unit 1: INTRODUCTION TO INCOME TAX

10 Hrs

Brief History of Indian Income Tax - Legal Frame Work - Types of Taxes - Canons of Taxation - Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration) - Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O. (Theory only).

Unit 2: EXEMPTED INCOMES

04 Hrs

Introduction - Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS

10 Hrs

Residential Status of an Individual - Determination of Residential Status - Incidence of Tax - Problems.

Unit 4: INCOME FROM SALARY

24 Hrs

Meaning - Definition - Basis of Charge - Advance Salary - Arrears of Salary - Allowances - Perquisites - Provident Fund - Profits in Lieu of Salary - Gratuity - Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 - Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY

12 Hrs

Basis of Charge - Deemed Owners - Exempted Incomes from House Property - Composite Rent - Annual Value - Determination of Annual Value - Treatment of Unrealized Rent - Loss due to Vacancy - Deductions from Annual Value - Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filing of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.
- Chart on perquisites.
- List of enclosures to be made along with IT returns (with reference to salary and house property incomes)

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: *Direct Taxes - Law and Practice*, Taxmann publication.
2. B.B. Lal: *Direct Taxes*, Konark Publisher (P) Ltd.
3. Bhagwathi Prasad: *Direct Taxes - Law and Practice*, Wishwa Prakashana
4. Dr. Mehrotra and Dr. Goyal: *Direct Taxes - Law and Practice*, Sahitya Bhavan Publication.
5. Dinakar Pagare: *Law and Practice of Income Tax*, Sultan Chand and sons.
6. Gaur & Narang: *Income Tax*.

5.4 COST MANAGEMENT

OBJECTIVE

Use of costing data for decision making and cost control. Emerging modern cost management concepts.

Unit 1: JOB AND CONTRACT COSTING

15 hours

Features, objectives, advantages and disadvantages of job & contract costing. Comparison between job and contract costing – problems.

Unit 2: PROCESS COSTING

16 hours

Features of process costing, application, comparison between job costing and process costing, advantages and disadvantages, process loss – normal loss – abnormal loss, abnormal gain – joint and by-products – problems (excluding inter-process profits and equivalent production).

Unit 3: OPERATING COSTING

12 hours

Introduction, Meaning, Types & methods. Transport Costing: Meaning, classification of costs, collection of costs, ascertainment of absolute passenger kilometers, ton kilometers – problems.

Unit 4: ACTIVITY BASED COSTING

12 hours

Meaning, differences between traditional costing methods and activity based costing. Characteristics of ABC, Cost drives & cost pools. Product costing using ABC system: uses – limitations – steps in implementation of ABC – simple problems.

Unit 5: TARGET COSTING

05 hours

Target Costing: Meaning, nature, methodology, methods of establishment of cost. Just in Time (JIT): features, implementation, and benefits. (Theory only).

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Collection of different formats – material requisition – purchase requisition-bin card-stores ledger
- Preparation of wage sheet / pay roll with imaginary figures.
- Preparation of flexible budget with imaginary figures

BOOKS FOR REFERENCE

- 1) S P Iyengar, *Cost Accounting*.
- 2) Nigam and Sharma, *Advanced Costing*.
- 3) B.S. Raman, *Cost Accounting*.
- 4) M.N. Arora, *Cost Accounting*.
- 5) N. Prasad, *Costing*.
- 6) Palaniappan and Hariharan : *Cost Accounting*, I.K. International Publishers
- 7) Jain & Narang, *Cost Accounting*
- 8) Ravi M. Kishore – *Cost Management*
- 9) Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
- 10) Anthony R. N. – *Management Accounting Principles*
- 11) S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
- 12) J. Made Gowda *Cost Accounting*
- 13) K.S Thakur- *Cost Accounting*

6.1 BUSINESS REGULATIONS

Objective: To introduce the students to various topics in law important to business people and to familiarize the students with common problems.

UNIT 1: INTRODUCTION TO BUSINESS LAWS **06 hours**

Introduction, nature of law, meaning and definition of business laws, scope and sources of business laws.

UNIT 2: CONTRACT LAWS **14 hours**

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: INFORMATION TECHNOLOGY ACT: **10 hours**

Introduction to Cyber Law in India, salient features of IT Act, 2000, importance of Cyber Law, Digital Signature, cyber crimes.

UNIT 4: COMPETITION AND CONSUMER LAWS: **10 hours**

The Competition Act, 2002: Objectives of Competition Act, the features of Competition Act, **CAT**, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies - District Forum, State Commission, National Commission.

UNIT 5: ECONOMIC AND ENVIRONMENTAL LAWS:

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

1. Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
2. Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
3. Draft an application to the Chief Information Officer of any government office seeking information about government spendings.
4. Draft digital signature certificate.
5. Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
6. Collect leading cyber crimes cases and form groups in the class room and conduct group discussion.
7. Draft a constructive and innovative suggestions note on global warming reduction.

BOOK REFERENCE:

1. N.D. Kapoor, *Business Laws*, Sultan chand publications.
2. Bulchandni, *Business Laws*,
3. S.C. Sharma: *Business Law I.K. International Publishers*
4. K. Aswathappa, *Business Laws*, Himalaya Publishing House,
5. *Tulsion Business Law*
6. S.S Gulshan - *Business Law*

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, RECENT TRENDS IN AUDITING: Nature & Significance of Tax Audit – Cost Audit - Management audit.

Unit 2: INTERNAL CONTROL

12 Hrs

Internal Control: meaning and objectives. Internal Check: meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation – Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

12 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. TR Sharma, Auditing.
2. BN Tandon, Practical Auditing.
3. MS Ramaswamy, Principles and Practice of Auditing.
4. Dinakar Pagare, Practice of Auditing.
5. Kamal Gupta, Practical Auditing.
6. P N Reddy & Appannaiah, Auditing.
7. R.G Sexena - Principles and Practice of Auditing

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this course is to make the students to understand the competition of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS AND PROFESSION 16 Hrs
Meaning and Definition of Business; Profession – Vocation – Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis – Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS 16 Hrs
Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F – Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES 10 Hrs
Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME 08 Hrs
Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 DD, 80 E, 80 G, 80 GG, 80 GGA, 80 QQB, 80 U.

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS 10Hrs
Meaning – Set-off & Carry forward of losses (Theory only).
Computation of Total Income and Tax Liability of an Individual Assessee (Problems – in case of income from salary & house property computed income shall be given).

SKILL DEVELOPMENT

- Chart Capital gains index numbers.
- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: *Direct Taxes – Law and Practice*, Taxmann publication.
2. B.B. Lal: *Direct Taxes*, Konark Publisher (P) Ltd.
3. Bhagwathi Prasad: *Direct Taxes – Law and Practice*, Wishwa-Prakashana.
4. Dinakar Pagare: *Law and Practice of Income Tax*, Sultan Chand and sons.
5. Gaur & Narang: *Income Tax*.
6. B.B. Lal: *Income Tax, Central Sales Tax Law & Practice*, Konark Publisher (P) Ltd.
7. V.S. Datey: *Indirect Taxes*, Taxmann Publication.
8. Dr. Sanjeev Kumar: *Systematic Approach to Indirect Taxes*, Bharath Law House.

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT1: MANAGEMENT ACCOUNTING AND ANALYSIS OF FINANCIAL STATEMENTS

8 Hrs

MANAGEMENT ACCOUNTING: Meaning – Definition – Objectives – Nature and Scope-- Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

ANALYSIS OF FINANCIAL STATEMENTS: Types of Analysis – Methods of Financial Analysis – Comparative Statements – Common Size Statements – Trend Analysis – Problems.

UNIT3: RATIO ANALYSIS

15 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Problems on Ratio Analysis – Preparation of financial statements with the help of Accounting Ratios.

UNIT4: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Procedure of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operation – Statement of Sources and Application of Funds – Problems.

UNIT5: CASH FLOW ANALYSIS

10 Hrs

Meaning and Definition of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS-3 – Procedure of Cash Flow Statement – Concept of Cash and Cash Equivalents - Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to AS-3 (Indirect Method Only).

UNIT6: MANAGEMENT REPORTING

5 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. Dr. S.N. Goyal and Manmohan, Management Accounting
4. B.S. Raman, Management Accounting
5. Sharma and Gupta, Management Accounting
6. PN Reddy & Appanaiah, Essentials of Management Accounting.
7. J.Made Gowda - Management Accounting
8. Saha & Others - Management Accounting
9. Sudhindra Bhat- Management Accounting

ELECTIVE GROUPS

1. ACCOUNTING & TAXATION GROUP

5.5 ADVANCED ACCOUNTING

Objectives: To acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations.

UNIT 1: ACCOUNTS OF BANKING COMPANIES

Business of banking companies – some important provisions of banking regulation act of 1949 – minimum capital and reserves – restriction on commission – brokerage – discounts – statutory reserves – cash reserves – books of accounts – special features of bank accounting, final accounts – balance sheet and profit and loss account – interest on doubtful debts – rebate on bill discounted – acceptance – endorsement and other obligations – problems as per new provisions.

UNIT 2: ACCOUNTS OF INSURANCE COMPANIES

Meaning of life insurance and general insurance – accounting concepts relating to insurance companies – Preparation of Final accounts of insurance companies – revenue account and balance sheet.

UNIT 3: INFLATION ACCOUNTING

Need – meaning – definition – importance and need – role – objectives – merits and demerits – problems on current purchasing power method (CPP) and current cost accounting method (CCA).

UNIT 4: FARM ACCOUNTING

Meaning – need and purpose – characteristics of farm accounting – nature of transactions – cost and revenue – apportionment of common cost – by product costing – farm accounting – recording of transactions – problems.

UNIT 5: INVESTMENT ACCOUNTING

Meaning – nature of investment – investment ledger – different terms used – cum dividend or interest – ex-dividend or interest – brokerage and expenses – problems

Books for reference:

1. Dr. S.N. Maheswari, *advanced accountancy.*
2. S. P. Jain and K. L. Narang – *advanced accountancy*
3. R L Gupta, *Advanced Accountancy*
4. shukla and Grewal, *Advanced accountancy*
5. B.S.Raman, *advanced accountancy*
6. Jawaharlal, *Management Accounting.*

5.6 BUSINESS TAXATION- I

OBJECTIVE:

(i) To equip students with the application of principles and provisions of Central sales tax, Customs act, Central excise, value added tax, Service tax laws, (ii) To provide an insight into practical aspects and apply the provisions of tax laws to various situations.

Unit 1: CENTRAL SALES TAX / G.S.T (Goods & Services Tax)

10 Hrs

Objects and basic scheme of CST act, Meaning – Dealer – Business – Sale – Goods – declared goods, Turnover – Sale Price – Sales Exempt from Central Sales Tax, inter state and intra state sale, sales in the course of imports and exports, registration under CST act, – Problems on Central Sales Tax.

Unit 2: CUSTOMS ACT

12 Hrs

Meaning – Types of Custom Duties – Valuation for Customs Duty – Tariff Value – Customs Value – Methods of Valuation for Customs – Problems on Custom Duty

Unit 3: CENTRAL EXCISE

14 Hrs

Procedures relating to Levy, Valuation and Collection of Duty, Types of Duty, Nature of Excise Duties – Cenvat Credit – Classification of Excisable Goods – Valuation of Excisable Goods – Important Central Excise Procedures – Problems.

Unit 4: VALUE ADDED TAX

10 Hrs

Basic Concepts of Value Added Tax – Dealer – Registered Dealer – Sales – Turnover – Input VAT – Output VAT – Goods – Capital Goods – Exempted Sales, Zero rated sale – Merits and Demerits of VAT – Features and Methods of VAT – Variants of VAT – Methods of Computation of VAT (Simple Problems)

SKILL DEVELOPMENT:

- Narrate the procedure for calculation of CST, Customs duty, Central excise, VAT, Service tax
- Preparation of challans for payment of duty.
- Preparation of Manufacturers Invoice.
- Preparation of Tax invoice under the VAT act.
- Filing of Registration forms, half yearly returns and challans for payment of tax under service tax act.

BOOKS FOR REFERENCE:

1. V.S.Datey: *Indirect Taxes – Law and Practice.*
2. R.K.Jain: *Customs Law Manual and Customs Tariff of India.*
3. *Taxmann's: Central Excise Manual and Central Excise Tariff.*
4. *Taxmann's: CENVAT Law and Procedure.*
5. TN Manoharan, *Income Tax Law including VAT/Service Tax, Snow White Publications Pvt. LTD.*
6. G. Sekar, *Income Tax, Service Tax and VAT, C. Sitaraman & Co. Pvt. LTD.*
7. *Karnataka Value added tax Act, 2003 published by Karnataka Law Journal Publications Bangalore - 560009*
8. *Santhil & Santhil : Business taxation.*
9. *S.Bhat: Taxation Management*

6.5 BUSINESS TAXATION -II

OBJECTIVE

To enable the students to understand assessment of Firms and Companies in regard to income tax and wealth tax.

Unit 1: SERVICE TAX 12 Hrs

Meaning and Definition – Features of Service Tax – Levy and Collection of Service Tax – Service Tax Administration – Exemptions from Service Tax – Taxable Services – Determination of Service Tax Liability (Simple Problems)

Unit 2: WEALTH TAX 14 Hrs

Basis of Charge – Assessment Year – Valuation Date – Net Wealth – Deemed Assets – Exempted Assets – Problems on Wealth Tax of companies and firms.

Unit 3: ASSESSMENT OF FIRMS 14 Hrs

Meaning of Partnership, Firm and Partners – New Scheme of Taxation of Firms – Assessment of Firms (Section 184) – Computation of Firm's Business Income – Treatment of Interest and Capital, Salary, Commission, Remuneration received by partners and computation of Firms total income.

Unit 4: ASSESSMENT OF COMPANIES 20 Hrs

Introduction – Meaning of Company – Types of Companies – Computation of Depreciation – Computation of Taxable Income of Companies – Minimum Alternative Tax (MAT) – Computation of Tax Liability.

SKILL DEVELOPMENT

- Collect financial statement of a firm and compute the taxable income
- Narrate the procedure for calculation of book profits
- Make the list of deemed assets and exempted assets under wealth tax act
- Illustrate the buying or leasing of an asset.

BOOKS FOR REFERENCE

1. Vinod K Singhania – "Direct Taxes - Law and Practice", Taxmann Publications
2. Dr. HC Mehrotra and Goyal, "Direct Taxes", Sahitya Bhavan Publications
3. Gaur and Narang ; Direct Taxes, Kalyani Publishers
4. Rajiva S. Mishra -Direct & Indirect Tax
5. Santhil & Santhil : Business taxation.
7. S. Bhat – Taxation Management.

6.6 ACCOUNTING FOR BUSINESS DECISIONS AND REPORTING

OBJECTIVE

To enable the students to understand business decisions using the accounting information.

Unit 1: MARGINAL COSTING

12 Hrs

Meaning - Advantages & Disadvantages - Need for Marginal Costing - Meaning and Definition of Marginal Costing - Features - Uses and Limitation of Marginal Costing - Absorption Costing V/s Marginal Costing - Problems

Unit 2: STANDARD COSTING

12 Hrs

Introduction - Meaning & Definition of Standard Cost and Standard Costing - Analysis of Variances - Advantages & Disadvantages of Standard Costing - Problems on Material Variances, Labor Variances and Overhead Variances.

Unit 3: BUDGETARY CONTROL

12 Hrs

Introduction - Meaning & Definition of Budget and Budgetary Control - Objectives of Budgetary Control - Classification of Budgets - Flexibility, Classification - Functional Budgets - Problems on Flexible Budgets and Cash Budgets.

UNIT 4. INTERNATIONAL FINANCIAL REPORTING STANDARDS (IFRS):

Introduction - Interpretations by International Financial Reporting Interpretation Committee (IFRIC), Significant difference vis-a-vis Indian Accounting Standards, Understanding of US GAAP and Indian Gap, Applications of IFRS and US GAAP and Indian GAAP.

UNIT 5: CORPORATE FINANCIAL REPORTING:

Issues and problems with special reference to published financial statements.

SKILL DEVELOPMENT

- Preparation of Income Statement using Absorption Costing and Marginal Costing Technique
- Illustrate make or buying decisions.
- Illustrate accept or reject decisions.
- Preparation of Flexible Budget with Imaginary Figures
- List any 10 industries where Standard Costing is used.

BOOKS FOR REFERENCE

1. S P Iyengar, *Cost Accounting*.
2. B.S. Raman, *Cost Accounting*.
3. M.N. Arora, *Cost Accounting*.
4. N. Prasad, *Costing*.
5. Palaniappan & Hariharan : *Cost Accounting*
6. Jain & Narang, *Cost Accounting*.
7. Gouri Shankar; *Practical Costing*.
8. K.S. Thakur: *Cost Accounting*.

BOOKS

1. S N
2. Kha
3. Sha
4. I M H
5. Prasa
6. PV K
7. R.M.
8. Nare
9. Sudh

2. FINANCE GROUP

5.5 ADVANCED FINANCIAL MANAGEMENT

OBJECTIVE

To familiarize the students with Advance Financial Management decisions.

Unit 1: INVESTMENT DECISIONS AND RISK ANALYSIS

12 Hrs

Risk Analysis – Types of Risks – Risk and Uncertainty – Techniques of Measuring Risks – Risk adjusted Discount Rate Approach – Certainty Equivalent Approach – Sensitivity Analysis – Probability Approach – Standard Deviation and Co-efficient of Variation – Decision Tree Analysis – Problems.

Unit 2: SOURCES OF CAPITAL

12 Hrs

Long Term Sources – Meaning – Equity Shares – Preference Shares – Debentures – Differences between Shares & Debentures – Retained Earnings – Long Term Loans and Loans from Financial Institutions.

Unit 3: CAPITAL STRUCTURE THEORIES

12 Hrs

Introduction – Capital Structure – Capital Structure Theories – Net Income Approach – Net Operating Income Approach – Traditional Approach – MM Approach – Problems.

Unit 4: DIVIDEND THEORIES

10 Hrs

Introduction – Irrelevance Theory – MM Model. Relevance Theories – Walter Model – Gordon Model – Problems on Dividend Theories.

Unit 5: PLANNING AND FORECASTING OF WORKING CAPITAL

14 Hrs

Concept of Working Capital – Determinants of Working Capital – Estimating Working Capital Needs – Operating Cycle – Cash Management – Motives of Holding Cash – Cash Management Techniques – Preparation of Cash Budget – Receivables Management – Preparation of Ageing Schedule and Debtors Turnover Ratio – Inventory Management Techniques – Problems on EOQ.

SKILL DEVELOPMENT

- Preparation of a small project report of a small business concern covering all components- (Finance, Marketing, Production, Human Resources, General administration) (Any one component can be selected as a title of the report)
- Designing a capital structure for a Trading concern
- Preparing a blue print on working capital of a small concern.
- Prepare a chart on Modes of cash budget.
- List out different modes of Dividend Policy.
- List out the Companies, which have declared dividends recently along with the rate of dividend.

BOOKS FOR REFERENCE

1. S N Maheshwari, *Financial Management Principles and Practice.*
2. Khan and Jain, *Financial Management.*
3. Sharma and Sashi Gupta, *Financial Management.*
4. I M Pandey, *Financial Management.*
5. Prasanna Chandra, *Financial Management.*
6. PV Kulkarni & BG Sathya Prasad, *Financial Management.*
7. R.M Srivastava ; *Financial Management & Policy*
8. Narendra Singh *Advanced Financial Management*
9. Sudhindra Bhat ; *Financial Management*

5.6 INTERNATIONAL FINANCE

Objectives:

To familiarize the students with International Financial Management issues.

UNIT – 1: INTRODUCTION TO INTERNATIONAL FINANCE 10 Hrs

Issues Involved in International Business and Finance, methods of payment, International Monetary system.

UNIT – 2: FOREIGN EXCHANGE AND BALANCE OF PAYMENTS 15 Hrs

Forex Market & Its Intermediaries, ADR, Foreign Exchange Rate, Theories of Foreign Exchange Rate Determination.

Components of balance of payments – Disequilibrium in the balance of payments- methods of correction of disequilibrium.

UNIT – 3: INSTRUMENTS IN INTERNATIONAL FINANCIAL MARKETS. 08 Hrs

Meaning-definition-international finance markets-Globalisation of Capital markets, Innovation in foreign securities and international portfolio management.

UNIT – 4: FOREIGN EXCHANGE RISK 12 Hrs

Exchange risks – hedging, Forward, future, swaps options, Valuation of future and swaps- valuation of options and efficiency of the exchange market.

UNIT – 5: INTERNATIONAL FINANCIAL INSTITUTIONS AND LIQUIDITY 15 Hrs

The IMF, International liquidity and SDR's (special drawing rights) – International bank for reconstruction and development (World Bank), International development association, International investment guarantee agency.

SKILL DEVELOPMENT:

- Visit any authorized dealers establishment and understand the activities of dealing room
- Analyse the trend of FDI into India during the preceding five years.

BOOKS FOR REFERENCE:

1. Harris Manville, *International Finance*.
2. Keith Pibean, *International Finance*.
3. Timothy Carl Kesta, *Case and Problems in International Finance*.
4. Avadhani B.K, *International Finance Theory and Practice*.
5. P.A. Apte, *International Financial Management*.
6. Somenath : *International Financial Management I.K. Intl*
7. Madhu Vij, *International Finance*.
8. Levi, *International Marketing Management*.
9. Bindar D.C, *International Finance*.
10. Murthy E.N, *International Finance & Risk Management*.
11. M.L. Verma, *Foreign Trade & Management in India*.
12. Rao and Chary, *International Finance*.
13. Ramachandra & Others ; *International Finance*
14. R.M. Srivastava , *Multinational Financial Management*.

6.5 CORPORATE FINANCIAL POLICY

OBJECTIVE

To expose the student towards corporate financial policies.

Unit 1: FINANCIAL POLICY

15 Hrs

Meaning - Scope - Interface of Corporate Financial Policy and other Managerial Functions - Decision in Corporate Financing Policy - Debt Financing - Internal Financing - Factors to be considered in formulating Financing Policy - Problems on EPS and Point of Indifference.

Unit 2: COST OF CAPITAL

10 Hrs

Meaning and Definition - Significance of Cost of Capital - Types of Capital - Computation of Cost of Capital - Specific Cost - Cost of Debt - Cost of Preference Share Capital - Cost of Equity Share Capital - Weighted Average Cost of Capital - Problems.

Unit 3: CORPORATE FINANCIAL GOALS

13 Hrs

Mission - Vision - Profit Maximization - Wealth Maximization - Economic & Business Environment - Sustained Growth Approach - Fund availability - Maximizing Growth - Growth Potential of a Single Product Company - Growth Potential of Multi Product Company.

Unit 4: MERGERS AND ACQUISITIONS

12 Hrs

Meaning - Reasons - Types of Combinations - Forms of Merger - Motives and Benefits of Merger - Financial Evaluation of a Merger - Merger Negotiations - Meaning and Significance of P/E Ratio, Problems on Exchange Ratio and Impact of Merger, EPS and Market Price.

Unit 5: CORPORATE VALUATION

10 Hrs

Meaning of Corporate Valuation - Methods of Corporate Valuation - Reasons for Corporate Valuation - Different approaches for Corporate Valuation - Valuation of Bonds and Intangible Assets - Valuation of Bonds and Shares - Problems.

SKILL DEVELOPMENT

- Formulation of financing policy
- Case analysis of some live merger reported in business magazines
- Analyzing business growth of some companies on the basis of reported financial results of some companies.
- Identify Mission, vision statement of Company.
- Case study of growth pattern of a single product / multi product.

BOOKS FOR REFERENCE

1. I M Pandey, *Financial management.*
2. R P Rustagi, *Financial management.*
3. C Varhorne, *Financial management.*
4. S.C. Sharam and Monika ; *Indian Financial System I.K. Intl*
5. Dr. Besant Ray, *Corporate management.*
6. Weston and Brigham, *Essentials of Managerial Finance.*
7. P N Varshney & D K Mittal; *Indian Financial System, Sulthan Chand & Sons*
8. E Gardon & K Natarajan: *Financial Markets & Services*
9. Nishikanta Jha ; *Mergers Acquisitions and Corporate Restructurings*
10. Sudhindra Bhat ; *Corporate Finance.*

6.6 SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

OBJECTIVE

To familiarize the students about investment decisions and portfolio decisions.

Unit 1: INTRODUCTION TO INVESTMENT MANAGEMENT **12 Hrs**

Meaning of Investment – Selection of Investment – Classification of Securities – Risk and Uncertainty – Types of Risks – Risk and Expected Return – Measurement of Portfolio Risk – Benefits of Diversification – Investment Strategies – Types of Companies and Stocks – Matrix approach in Investment Decision – Investment Avenues

Unit 2: SECURITY ANALYSIS **14 Hrs**

Introduction – Fundamental Analysis – Economic Analysis – Industry Analysis – Company Analysis. Technical Analysis – Dow Theory – Advanced Declined Theory – Chartism Assumptions of Technical Analysis.

Unit 3: MODERN PORTFOLIO THEORY **12 Hrs**

Introduction – Mean – Variance Model – Capital Market Line – Market Portfolio – Capital Asset Pricing Model – Security Market Line – Beta Factor – Alpha and Beta Coefficient – Arbitrage Pricing Model.

Unit 4: PORTFOLIO MANAGEMENT **10 Hrs**

Markowitz Model – Sharpe Model – Jensen and Treynor Model

Unit 5: GLOBAL MARKETS **12 Hrs**

Global Investment Benefits - Introduction to ADRs, GDRs, FCCBs, Foreign Bonds, Global Mutual Funds – Relationship between Trends in Global Markets and the Domestic Markets

BOOKS FOR REFERENCE

1. Kevin, *Investment and Portfolio Management*
2. Prasanna Chandra, *Investment Analysis and Portfolio Management, Mcgraw-Hill*
3. Fischer and Jordan, *Security Analysis and Portfolio Management, Prentice Hall*
4. Avadhani, *Investment Analysis and Portfolio Management, HPH'*
5. A.P. Dash : *Security Analysis and Portfolio Management I.K. Intl*
6. Punithvathy Pandian – *Security analysis & portfolio Mgt*
7. Preeti Singh - *Security Analysis and Portfolio Management*
8. Sudhindra Bhat- *Security Analysis and Portfolio Management*
9. Rohini Singh - *Security Analysis and Portfolio Management*

3. MARKETING GROUP

5.5 CONSUMER BEHAVIOUR

Unit 1: INTRODUCTION

8 hrs

Introduction to Consumer Behaviour - A managerial & consumer perspective; why study consumer behaviour? ; Applications of consumer behaviour knowledge; current trends in Consumer Behaviour; Market segmentation & consumer behaviour.

Unit 2: INDIVIDUAL DETERMINANTS OF CONSUMER BEHAVIOUR

14 hrs

Consumer needs & motivation; personality and self-concept; consumer perception; learning & memory; nature of consumer attitudes; consumer attitude formation and change.

Unit 3: ENVIRONMENTAL DETERMINANTS OF CONSUMER BEHAVIOUR

12 hrs

Family influences; the influence of culture; subculture & cross cultural influences; group dynamics and consumer reference groups; social class & consumer behaviour.

Unit 4: CONSUMER'S DECISION MAKING PROCESS

8 hrs

Problem recognition; Search & Evaluation; Purchase processes; Post-purchase behaviour; personal influence & opinion leadership process; diffusion of innovations; Models of Consumer Behaviour; Researching Consumer behaviour; consumer research process.

Unit 5: CONSUMER SATISFACTION & CONSUMERISM

8 hrs

Concept of Consumer Satisfaction; Working towards enhancing consumer satisfaction; sources of consumer dissatisfaction; dealing with consumer complaint. Concept of consumerism; consumerism in India; the Indian consumer; Reasons for growth of consumerism in India; Consumer protection Act 1986.

SKILL DEVELOPMENT:

- Conduct an informal interview of a local retail store owner and determine what demographic and socio economic segments the store appears to satisfy. How did the owner select this segment or segments?
- Conduct formal interview to the managers of three retail-clothing stores. Determine the degree to which they believe consumer's personality and self-image are important to the marketing activities of the stores.
- Visit three local restaurants and assess how each attracts clientele in different stages of the family life cycle.
- You are the owner of two furniture stores, one catering to upper-middle class consumers and the other to lower-middle class consumers. How do social class differences influence each store's
 - Product lines & styles
 - Advertising media selection
 - The copy & communication styles used in the advertisements
 - Payment policies
- For each of the following Products & services, indicate who you would go to for information and advice;
 - The latest fashion in clothes
 - Banking
 - Air travel
 - Vacation destinations
 - A personal computer
- For each situation; indicate the person's relationship to you and your reasons for selecting him/her as the source of information and advice.

REFERENCE BOOKS:

- 1) Leon. G. Schiffman & Leslie Lazer Kanuk; *Consumer behaviour*, 6th Edition; PHI, New Delhi, 2000.
- 2) David. L. Loudon & Albert J. Bitta; *Consumer Behaviour*; 4th Edition, Mcgraw Hill, Inc; New Delhi, 1993.
- 3) Assael Henry; *Consumer behaviour and marketing action*; Asian Books(P) Ltd, Thomson learning, 6th Edition; 2001.
- 4) Suja R.Nair, *Consumer behaviour in Indian perspective*, First Edition, Himalaya Publishing House, Mumbai, 2003.
- 5) Jay D. Lindquist & M. Joseph Sirgy, *Shopper, Buyer and Consumer Behaviour*, 2003.
- 6) Blackwell; *Consumer Behaviour*, 2nd Edition.
- 7) Sontakki; *Consumer Behaviour*.
- 8) Schiffman; *Consumer Behaviour*.
- 9) Rajeev Khumra; *Consumer Behaviour*.
- 10) S H H Kazmi; *Consumer Behaviour & Marketing Communication*.

5.1 MARKETING RESEARCH

OBJECTIVE

To enable the students to understand the basic concepts of Marketing Research, Analysis and Presentation of Report.

Unit 1: INTRODUCTION & BASIC CONCEPTS

Introduction to marketing research - nature, characteristics, scope, uses & limitations; Interaction between management and marketing research; Marketing information system and decision support system in marketing research; Assessing information needs; scientific method & research process; steps in research process; types of research.

Unit 2: SOURCE & COLLECTION OF DATA

Sources of Secondary data; its advantages and disadvantages; methods of collection of primary data; construction of questionnaire and interview, schedule; scaling and measurement; Sampling designs and sample size- decisions; organizing data collection & field force.

Unit 3: PROCESSING & ANALYSIS OF DATA

Editing, Coding & tabulation of data; techniques of data analysis; testing of hypothesis; tests of significance; analysis of associations; analysis of experiments; Interpretation of data.

Unit 4: REPORT WRITING & PRESENTATION

Role & types of report; content of report; principles of report preparation; Presentation & Communication.

Unit 5: TRADITIONAL & EMERGING APPLICATIONS OF MARKETING RESEARCH

Product research; price research; distribution research; advertising research; market & sales research; customer database and relationship marketing; Internet Marketing Research.

SKILL DEVELOPMENT:

- Identify & describe the activities of five marketing research companies in India?
- Form class Teams & based on the sources of secondary data available, prepare a short report on 'Investment options for consumers in Indian financial services sector.'
- Construct a questionnaire to measure student's attitudes towards the purchase of two-wheelers/ready-made garments/educational service/television programs. Administer the questionnaire you have developed on selected students (sample size of 25 students) in your college. Discuss any response related problems you encountered.
- Based on the above survey, carryout the analysis & interpretation of data. Short report should be submitted for evaluation of acquired skills of marketing research.
- Participate in any online/ Internet marketing research program and identify the key characteristics of the program.

REFERENCE BOOKS:

- 1) *Boyd, Westfall & starch, Marketing Research, text & cases, seventh edition, AITBS New Delhi.*
- 2) *G.c.Beri, Marketing Research, Tata McGraw Hill publishing company, New Delhi.*
- 3) *Prof.M.N.Mishra, Modern Marketing Research; First Edition, Himalaya Publishing House, Mumbai.*
- 4) *Suja.R.Nair, Marketing Research, First Edition, Himalaya Publishing House, Mumbai.*
- 5) *Amanathulla, Marketing Research.*
- 6) *Malhotra, Marketing Research.*
- 7) *N.P Reddy Marketing Research 2nd Edition.*

6.5 ADVERTISING & MEDIA MANAGEMENT

OBJECTIVE

To familiarize the students about the concepts of Advertisement and Media Management, Campaign Planning and Organizing Functions.

Unit 1: INTRODUCTION & BASIC CONCEPTS

History of advertising; Advertising purpose and functions; Economic, social & ethical aspects of advertising; Advertising & the marketing mix, Advertising as a communication process; types of advertising; Major Institutions of advertising management.

Unit 2: ADVERTISING AND CAMPAIGN PLANNING

Marketing strategy & situation analysis; Advertising plan; Advertising objectives; DAGMAR approach; advertising strategy; Advertising campaign-planning process.

Unit 3: CREATIVE STRATEGY & ADVERTISING BUDGET

Creative approaches; the art of copywriting; Advertising copy testing; advertising communication, motivational approaches & appeals, advertising budget process; methods of determining advertising appropriations.

Unit 4: ADVERTISING MEDIA STRATEGY

Role of media; types of media; their advantages and disadvantages; media advertising decisions; media planning, selection & scheduling strategies.

Unit 5: ADVERTISING EFFECTIVENESS & ORGANISING ADVERTISING FUNCTIONS.

12 hrs

Methods of measuring advertising effectiveness; advertising research; structure & functions of an advertising agency; selection & co-ordination of advertising agency; Advertising regulations; Internet advertising.

SKILL DEVELOPMENT:

- Sketch the competitive position for the development of an advertising plan for Sahara Airlines & Tata Telephones.
- Define the advertising objectives on DAGMAR Approach for any product of your choice.
- By selecting an appropriate theme & appeal, create & enact an advertisement for a range of any established products. For this purpose, the class should be divided into groups and formal presentations have to be evaluated.
- Select two print & electronic media for the purpose of understanding the functions of advertising media. Comparative analysis of the same should be done & short reports must be prepared.
- Get into the exciting world of internet / Net advertising and identify the message content of 10 products / Services of your choice.

REFERENCE BOOKS:

- 1) Rajeev Batra, John.G.Myers.T.David.A.Aaker; *Advertising Management; 5th Edition, PHI Edition, New Delhi, 1998.*
- 2) *Jefkins & Yadin; Advertising, 4th Edition; Pearson Education, New Delhi, 2000.*
- 3) *3. Manendra Mohan; Advertising Management - Concepts & Cases; Tata McGraw Hill Publishing company Ltd, New Delhi 2001.*
- 4) *S.A.Chunnawalia & K.c.Sethia Foundations of Advertising - Theory & Practice, Himalaya Publishing House, 2002.*
- 5) *Sonatakki, Advertising.*
- 6) *Wells, Advertising.*
- 7) *C.S Rayudu Media and Communication Management.*
- 8) *Murthy/ U Bhojanna ; Advertising in IMC*

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6.6 RETAIL MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAILING

10 Hrs

Definition - functions of retailing - types of retailing - forms of retailing based on ownership. Retail theories - Wheel of Retailing - Retail life cycle. Retailing in India - Influencing factors - present Indian retail scenario. Retailing from the International perspective

Unit 2: CONSUMER BEHAVIOUR IN THE RETAIL CONTEXT

12 Hrs

Buying decision process and its implication to retailing - influence of group and individual factors. Customer shopping behaviour Customer service satisfaction. Retail planning process - Factors to consider - Preparing a complete business plan - implementation - risk analysis.

Unit 3: RETAIL OPERATIONS

10 Hrs

Choice of Store location - Influencing - Factors Market area analysis - Trade area analysis - Rating Plan method - Site evaluation. Retail Operations: Store Layout and visual merchandising - Store designing - space planning. Retail Operations: Inventory management - Merchandise Management - Category Management.

Unit 4: RETAIL MARKETING MIX

12 Hrs

Retail marketing mix - an Introduction. Retail marketing mix: Product - Decisions related to selection of goods (Merchandise Management revisited) - Decisions related to delivery of service. Retail marketing mix: Pricing - Influencing factors - approaches to pricing - price sensitivity - Value pricing - Markdown pricing. Retail marketing mix: Place - Supply channel - SCM principles - Retail logistics - computerized replenishment system - corporate replenishment policies. Retail marketing mix: Promotion - Setting objectives - communication effects - promotional mix. Human Resource Management in Retailing - Manpower planning - recruitment and training - compensation - performance appraisal.

Unit 5: IMPACT OF IT IN RETAILING

08 Hrs

Non store retailing The impact of Information Technology in retailing - Integrated systems and networking - EDI - Bar coding - Electronic article surveillance - Electronic shelf labels - customer database management system. Legal aspects in retailing. Social issues in retailing. Ethical issues in retailing.

BOOKS FOR REFERENCE

- 1) Barry Bermans and Joel Evans: "Retail Management - A Strategic Approach", 8th edition, PHI private limited, Newdelhi, 2002.
- 2) A.J.Lamba, "The Art of Retailing", 1st edition, Tata McGrawHill, Newdelhi, 2003.
- 3) Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
- 4) James R. Ogden & Denise T.: Integrated Retail Management
- 5) Ogden : Biztantra, 2007
- 6) Levy & Weitz : Retail Management -TMH 5th Edition 2002
- 7) Rosemary Varley, Mohammed Rafiq-: Retail Management
- 8) Chetan Bajaj : Retail Management -Oxford Publication.
- 9) Uniyal & Sinha : Retail Management - Oxford Publications.
- 10) Suja nair; Retail Management
- 11) R.S Tiwari ; Retail Management, HPH
- 12) Araif Sakh ; Retail Management
- 13) A Sivakumar : Retail Marketing , Excel Books

4. INFORMATION & TECHNOLOGY GROUP

5.5 ACCOUNTING INFORMATION SYSTEMS

Objective: *Accounting Information Systems is concerned with the way computerized information systems impact how accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.*

Unit – 1: The Information System: An Accountant's Perspective 10 hours
The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function. Evolution of Information System Models - The Manual Process Model, The Flat-File Model, The Database Model, The REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2: Introduction to Transaction Processing 10 hours
An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle, Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts, Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems, Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3: Computer-Based Accounting Systems 10 hours
Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues.

Unit – 4: Financial Reporting and Management Reporting Systems 10 hours
Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting, Behavioral Considerations.

Unit – 5: Computer Controls and Auditing IT Controls 10 hours
Relationship between IT Controls and Financial Reporting, Audit Implications of Sections **IT Governance Controls, Organizational Structure Controls**, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure.

Unit – 6: Computer Center Security and Controls 10 hours
- Computer Center Controls Disaster Recovery Planning - Providing Second-Site Backup, Identifying Critical Applications, Performing Backup and Off-Site Storage Procedures,

Creating a Disaster Recovery Team, Testing the DRP, Audit Objective: Assessing Disaster Recovery Planning, Audit Procedures for Assessing Disaster Recovery Planning

References:

1. **Accounting Information Systems**, 11/E **Marshall B. Romney**, Brigham Young University **Paul J. Steinbart**, Arizona State University, Prentice Hall
2. **The Crossroads of Accounting and IT** Donna Kay, Ali Ovlia, May 2011, Hardback,
3. **Accounting Information Systems** International Edition 10th Edition **George Bodnar**, William Hopwood Aug 2009,.

5.6 ENTERPRISE RESOURCE PLANNING

Objectives:

This paper will orient students to understand that business processes can be integrated in a seamless chain.

UNIT 1: INTRODUCTION

10 hours

Introduction To ERP, Evolution of ERP, What is ERP? Reasons for the growth of ERP, Scenario and Justification of ERP in India, Evaluation of ERP, Various Modules of ERP, Advantage of ERP.

UNIT 2: ERP ENVIRONMENT

10 hours

An overview of Enterprise, Integrated Management Information, Business Modeling, ERP for Small Business, ERP for make to order companies, Business Process Mapping for ERP Module Design, Hardware Environment and its Selection for ERP Implementation.

UNIT 3: ERP RELATED TECHNOLOGIES

10 hours

ERP and Related Technologies, Business Process Reengineering (BPR), Management Information System (MIS), Executive Information System (EIS), Decision support System (DSS), Supply Chain Management (SCM)

UNIT 4: ERP MODULES

10 hours

ERP Modules, Introduction to Finance, Plant Maintenance, Quality Management, Materials Management

UNIT 5: ERP Market

10 hours

ERP Market, Introduction, SAP AG, Baan Company, Oracle Corporation, People Soft, JD Edwards World Solutions Company, System Software Associates, Inc. (SSA) QAD, A Comparative Assessment and Selection of ERP Packages and Modules.

Skill Development:

Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE:

1. *ERP* : Alexis Leon, Leon Publishers
2. *"Managing Business Process Flows"* : Ravi Anupindi, Suni Chopra, " , Pearson Education.
3. *Enterprise Resource Planning* : Altekar, PHI.
4. *Enterprise Resource Planning* : Srivatsava, I.K. International Publishers
5. *ERP* : Vinod Kumar Garg and N.K. Venkitakrishnan, PHI.
6. *Introduction to SAP, an Overview of SD* : MM, PP,FI/CO Modules of SAP.
7. *Enterprise Resource Planning* : Zaveri Jyotindra
8. *Enterprise Resource Planning* : C.S. V Murthy
9. *Enterprise Resource Planning* : P. Diwan

6.6 BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this course is to acquaint students with the banking technology and their recent developments. Also it will enhance the students with live picture of modern banking concepts and Techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING

10 Hours

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS

10 Hours

Over of delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3: BACK OFFICE OPERATIONS

10 Hours

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4: INTER BANK PAYMENT SYSTEM

10 Hours

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGSS – Negotiated dealing systems and securities settlement systems – Electronic Money – E-cheques.

Unit 5: CONTEMPORARY ISSUES IN BANKING TECHNIQUES

10 Hours

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

REFERENCES

1. Kaptan S S & Choubey N S, "E-Indian Banking in Electronic Era", Sarup & Sons, New Delhi 2003.
2. Vasudeva, "E-Banking", Common Wealth Publishers, New Delhi, 2005.
3. Chandramohan : Fundamental of Computer Network I.K. International Publishers
4. Effraim Turban, Rainer R. Kelly, Richard E.Potter, "Information Technology", John Wiley & Sons Inc, 2000.
5. Andrew S. Tanenbaum, "Computer Networks", Tata Mcgraw Hill, 3rd Edition, 2001
6. Padwal & Godse : Transformation of Indian Banks with Information Technology.

6.5 INFORMATION TECHNOLOGY AND AUDIT

OBJECTIVE: This subject aims at imparting knowledge about auditing done with the use of information technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE

10 Hrs

Introduction – Meaning - Definition -- Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS

10 Hrs

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS

12 Hrs

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods, setting closing stock manually in the balance sheet. Balance sheet of joint stock companies.

Unit 4: TAX AUDIT

12 Hrs

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT

10 Hrs

Creation and maintenance of Audit Programme, create the Audit Programme as pre audit activity, Supports to prepare and maintain **Audit Working Papers**, Facility to mark the applicable and compiled **Accounting Standards** for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE:

1. Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.
2. Guide to Tally 9, Law Point,
3. Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5.

5. HUMAN RESOURCE GROUP

5.5 STRATEGIC HUMAN RESOURCE MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Strategic Human Resource Management.

Unit 1: INTRODUCTION TO STRATEGIC HRM

12 Hrs

Strategic role of HRM, Planning and Implementing Strategic HR policies, HR Strategies to Increase firm performance.

Unit 2: INVESTMENT PERSPECTIVES OF HR

12 Hrs

Investment Consideration, investments in Training and Development, investment Practices for improved Retention, investments job secure work courses, Nontraditional investment Approaches.

Unit 3: MANAGING STRATEGIC ORGANIZATION

12 Hrs

Managing Strategic Organizational renewal- Managing change and OD, instituting TQM Programmes, Creating Team based Organizations, HR and BPR, Flexible work arrangement.

Unit 4: ESTABLISHING STRATEGIC PLANS

12 Hrs

Establishing Strategic pay plans, Determining periods, Establishing periods, Pricing Managerial and professional jobs, Compensation trends, Objectives of international Compensation, Approaches to international Compensation, Issues related to double taxation. Cases.

Unit 5: GLOBAL HRM

12 Hrs

Managing Global Human Resources-HR and the internationalization of business, Improving international Assignments through selections, Training and maintaining international Employees, Developing international Staff and Multinational Teams, Multinational, Global, and Transnational Strategies, Strategic Alliances, Sustainable Global Competitive Advantage, Globally Competent Managers, Location of Production Facilities.

BOOKS FOR REFERENCES

- 1) Gary Dessler, *Human Resource Management*, PHI, New Delhi, 2003.
- 2) Charles R. Greer, *Strategic Human Resource Management*, Pearson Education, 2003.
- 3) Luis R. Gomez-Mejia, David B. Balkin, Robert L. Cardy, *Managing Human Resources*, PHI, 2001.
- 4) Rajkumar : *Human Resource Management* I.K. International Publishers
- 5) Peter J. Dowling, Denise E. Welch, Randall S. Schuler, *International Human Resource Management*, Thomson South-Western, 2002.
- 6) Rajesh Visvanathan : *Strategic Human Resource Management*
- 7) R. Regis : *Strategic Human Resource Management*

5.6 HUMAN RESOURCE DEVELOPMENT

OBJECTIVE

The objective of this course is to enable the students to understand the various concepts of Human Resources Development and also the recent trend in HRD.

UNIT - 1: Human resource Development 6 Hrs
Meaning and Importance of human resource development, Objectives of human resource development. Scope of human resource development

UNIT - 2: TRAINING AND DEVELOPMENT 12 Hrs
Orientation and training, Orienting employees, the training process, training needs analysis., training techniques, evaluating training efforts, Methods of training, sensitivity training - types roles of instructor, method, feedback, goals, misconceptions; case study, role play, business game, in-basket exercise, designing training program, actual practice, Designing training program -performance appraisal as a tool.
Development, Nature and purpose of management development, managerial on-the-job training, job rotation and management, off-the-job management development techniques, computerised managerial assessment and development program, using HR to build a responsive learning organization.

UNIT - 3: ORGANISATIONAL DEVELOPMENT 8 Hrs
Introduction, definition and concept, characteristics, operational goals of OD, conditions for OD success, Phases of OD, Techniques of OD- sensitivity training, benefits and limitation, what is a change process? Types of change, managing resistance, OD assumptions.

UNIT - 4: DEVELOPMENT OF MANAGERS IN HRD 6 Hrs
Meaning of Potential Appraisal , meaning of counselling, counselling as a process of developing in organisation. Definition and concept counselling, objectives, what constitutes, conditions for effective counselling, process of counseling.

UNIT - 5: MANAGING QUALITY AND PRODUCTIVITY 6 Hrs
Alternative work arrangements, using quality circle programs, attitude surveys, Total quality management programs, creating self-directed teams, extending participative decision making, HR and business process reengineering.

UNIT - 6: TRANSACTIONAL ANALYSIS 8 Hrs
Definition, origins, philosophy of TA, goals, what is TA? 6 key concepts, Ego states, Transactions - Cross, Parallel, Ulterior
Strokes - different types, negative strokes, strokes economy
Life positions - I am ok You are ok and others, its relevance to managers, co-relative with self-esteem, attitudes
Time structuring - rituals to intimacy.

UNIT - 7: RECENT TRENDS IN THE AREA OF HRD 4 Hrs
Recent trends in the area of HRD - Personality quotient ,Emotional quotient and others, the use of computer and the internet

SKILL DEVELOPMENT:

BOOKS FOR REFERENCE:

1. Pandey , Human Resource Development.
2. Rao and T.V. Verma, Human Resource Development.
3. Jean Marleen, Performance Oriented Human Resource Development.
4. Lalitha Balakrishna & Others : Human Resource Development.
5. Gupta & Chhabra : Human Resource Information System
6. D. K Bhattacharya : Human Resource Development.
7. R. Krishnaveni : Human Resource Development.

6.5 LABOUR WELFARE & SOCIAL SECURITY

OBJECTIVE

To expose students to acquire skills in Labor Welfare & Social Security.

Unit 1: SOCIAL & LABOUR WELFARE

12 Hrs

Social Welfare; Labour Welfare: Concept, Scope; Philosophy and Principles of Labour Welfare; Indian constitution and Labour Welfare; Labour Welfare Policy and Five Year Plans, Historical Development of Labour Welfare in India;

Unit 2: INDIAN LABOUR ORGANIZATION

12 Hrs

Impact of ILO on Labour Welfare in India; Agencies of Labour Welfare and their Roles, Labour Welfare Programmes: Statutory and Non-Statutory, Extra Mural and Intra Mural. Welfare Centers; Welfare Officer: Role, Status and Functions.

Unit 3: SOCIAL SECURITY

12 Hrs

Concept and Scope; Social Assistance and Social Insurance, Development of Social Security in India; Social Security measures for Industrial Employees.

Unit 4: LABOUR ADMINISTRATION - 1

12 Hrs

Evolution of Machinery for Labour Administration; Central Labour Administrative Machinery in India, Labour Administration in India.

Unit 5: LABOUR ADMINISTRATION - 2

12 Hrs

Director General of Employment and Training; Director General of Factory Advice Service; Provident Fund Organization; ESI Schemes; Central Board for workers' Education;

BOOKS FOR REFERENCE

- 1) Moorthy, M.V. *Principles of Labour Welfare*, Oxford & IBH Publishing Co., New Delhi.
- 2) Vaid, K.N. *Labour Welfare in India*, Sree Ram Centre for Industrial Relations and Human Resources, New Delhi:
- 3) Sharma, A.M. *Aspects of Labour Welfare and Social Security*, Himalaya Publishing, House, MuMHRMi.
- 4) Ram Chandra P. Singh, *Labour Welfare Administration in India*, Deep & Deep Pub., New Delhi:
- 5) Punekar, S.D. Deodhar S.B., Sankaran, Saraswathi, *Labour Welfare, Trade Unionism and Industrial Relations*, Himalaya Pub. House, Mumbai.
- 6) Pant, S.C., *Indian Labour Problems*, Chaitanya Pub. House, Allahabad.
- 7) Saxena, R.C., *Labour Problems and Social Welfare*, K. Nath & Co., Meerut;
- 8) Bhogiliwala, T.N. *Economics of Labour & Industrial Relations*, Sahitya Bhavan Pub., Agra;
- 9) Memoria, C.B. *Dynamics of Industrial Relations in India*, Himalaya Pub. House, MuMHRMi.
- 10) B.D Singh: *Labour Laws for Managers*

6.6 INDUSTRIAL REGULATIONS

OBJECTIVE

To enable the students to understand the various laws relating to Industrial Labor.

Unit 1: PAYMENT OF WAGES ACT – 1936

10 Hrs

Definitions; Responsibility for payment of wages; fixation of Wage period; Time of Payment of Wages; Mode of Payment; Deductions from wages for absence from duty, damage or loss, for services rendered, recovery of advances & loans; Maintenance of registers and records; Penalty for offences; Payment of undisbursed wages in case of death.

Unit 2: PAYMENT OF BONUS ACT – 1965

08 Hrs

Definitions, eligibility for bonus, payment of minimum and maximum bonus, disqualification for bonus, set on and set off allocable surplus, time limit for payment of bonus.

Unit 3: EMPLOYEE STATE INSURANCE ACT – 1948

12 Hrs

Contributions:-who is to be insured, principle employer to pay contribution in the first instance, general provisions as to payment of contributions, method of payment.
Benefits: - Sickness benefit, maternity benefit, disablement benefit, presumptions as to accidents arising in course of employment, dependents benefit, medical benefits.
Penalties: - Punishment for false statement, punishment for failure to pay contributions and prosecutions.

Unit 4: WORKMEN COMPENSATION ACT:

12 Hrs

Introduction, Scope, accidents arising during and in the course of employment, circumstance when the workmen is basic or not basic for compensation.

Unit 5: PAYMENT OF GRATUITY ACT – 1972

08 Hrs

Definitions, continuous service, payment of gratuity, compulsory insurance, determination of the amount of gratuity.

Unit 6: FACTORIES ACT – 1948

10 Hrs

Health: - cleanliness, disposal of waste, ventilation, dust and fume, artificial humidification, overcrowding, lighting, drinking water, toilets, spittoons.
Safety: -Fencing of machinery, work on or near machinery in motion, employment of young persons on dangerous machines, Safety officer.
Welfare: -Washing facilities, facilities for storing and drying clothing, facilities for sitting, first aid appliances canteens, shelters and restrooms, crèches. Working hours for adults, annual leave with wages.

Unit 7: MINIMUM WAGE ACT – 1948

12 Hrs

Definitions, fixing of minimum rates of wages, minimum rate of wages, procedure for fixing and revising minimum wages, wages in kind, payment of minimum rates of wages, fixing hours a normal working day, over time. Employees provident funds and miscellaneous provisions act 1952: - Short title & Extent; Definitions, Employment provident fund scheme, employees' pension scheme, employees deposit linked insurance scheme.

BOOKS FOR REFERENCE

- 1) AM Sarma, *Aspects of Labour Welfare & Social Security*
- 2) MS Pandit & Shobha Pandit, *Business Law*
- 3) P.L.Malik, *Industrial Law*
- 4) N.D.Kapoor, *Industrial Law*
- 5) B.D Singh: *Industrial Relations*

6. BANKING & INSURANCE GROUP

5.5 INTERNATIONAL BANKING & FOREX MANAGEMENT

Objective

The objective of this course is to enable the students to understand the various concepts of international banking and foreign exchange rate determination.

UNIT 1 : INTRODUCTION TO INTERNATIONAL BANKING 10 Hrs

Introduction - Meaning - Functions - Financing of Exports - Financing of Imports - International Payment Systems.

UNIT 2 : INTERNATIONAL CAPITAL MARKETS 10 Hrs

Introduction - meaning and Definition - Types - Financial market flow beyond national boundaries - Debt and non - debt flows - Volatile and Stable flows - interest rate differentials - Demand for and supply of funds across borders.

UNIT 3 : OFFSHORE BANKING CENTRES 10 Hrs

Introduction - Meaning - Role in International Financing - Global Balance sheet of bank - Asset and Liability Management of Foreign Banks.

UNIT 4 : FOREIGN EXCHANGE AND MARKETS 15 Hrs

Introduction - Meaning - Elements - Importance - Evolution of Exchange Rate System - International Monetary System - Gold Standard - types of exchange rates - Fluctuations in Foreign Exchange rates - Causes and Effects - Need for Stable foreign exchange Rates - Determination of Exchange rates - Theories of Determination of Foreign Exchange Rates.

UNIT 5 : FOREX MARKET IN INDIA 15 Hrs

Introduction - Meaning - Types - Operations - Convertibility - Objectives of Foreign Exchange Control - Problems of Foreign Exchange market in India - Mechanism to settle the problems - Role of RBI in settlement of foreign exchange problems in India.

Skill Development

- Chart showing the currencies of Different countries.
- Table showing one month foreign exchange rates of Rupee and US \$
- Role of RBI in settlement of foreign exchange problems in India.
- Global Balance sheet of a bank
- Comment on Asset and Liability Management of a Foreign Bank.

BOOKS FOR REFERENCE

1. Harris Manville, *International Finance*.
2. Keith Pibean, *International Finance*.
3. Timothy Carl Kesta, *Case and Problems in International Finance*.
4. Avadhani B.K, *International Finance Theory and Practice*.
5. Somanatha: *International Financial Management I.K. International Publishers*
6. P.A. Apte, *International Financial Management*.
7. Madhu Vij, *International Finance*.
8. Levi, *International Marketing Management*.
9. Chaudhuri & Agarwal *Foreign Trade & Foreign Exchange, HPH*

5.6 LIFE & GENERAL INSURANCE

OBJECTIVE

To enable the students to understand various aspects of Life & General Insurance.

Unit 1: INTRODUCTION TO LIFE INSURANCE 10 Hrs

Introduction to Life Insurance - Principles of Life Insurance - Life insurance products, pensions and annuities - Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

Unit 2: LEGAL ASPECTS OF LIFE INSURANCE 10 Hrs

Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA Act.

Unit 3: CLAIM MANAGEMENT & RE-INSURANCE 10 Hrs

Claim Management - Claim Settlement - Legal Framework - Third party Administration, Insurance ombudsman - Consumer Protection Act - Re-Insurance in Life Insurance - Retention Limits - Methods of re-insurance.

Unit 4: INTRODUCTION TO GENERAL INSURANCE 10 Hrs

Introduction to General Insurance. Principles of General Insurance. Types of General Insurance - Personal general insurance products (fire, personal liability, motors, miscellaneous insurance). Terminology, clauses and covers. Risk assessment, underwriting and ratemaking. Product design, development and evaluation. Loss Provincial control.

Unit 5: INSURANCE INDUSTRY 10 Hrs

Insurance industry - Brief History - Pre Nationalization and post nationalization - Current scenario.- Re-Insurance - Functions, Methods of re-Insurance.

BOOKS FOR REFERENCE

- 1) P. Perya Swamy ;Principles and Practice of Life Insurance
- 2) Raman B, Your Life Insurance Hand Book
- 3) William C. Arthur, Risk Management and Insurance
- 4) Gopal Krishnan, Liability Insurance
- 5) Aramvalarthan ; Risk Management I.K. Intl
- 6) Mishra M.N, Insurance Principles and Practice
- 7) Bose A.K, Engineering Insurance
- 8) Fire Insurance Claim - Insurance institute of India
- 9) P. K Gupta; Insurance & Risk Management
- 10)G. Krishna Swamy: A Text book on Principles and Practices of Life Insurance

6.5 RISK MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Risk Management.

Unit 1: INTRODUCTION TO RISK MANAGEMENT 12 Hrs

Introduction to risk management- elements of uncertainty peril, Hazards – types risk management process - definition, types and various means of managing risk - limitations of risk management.

Unit 2: SOURCES OF RISK AND EXPOSURE 12 Hrs

Sources of risk and exposure, pure risk and speculative risk, acceptable and non-acceptable risks, static and dynamic risk, various elements of cost of risk.

Unit 3: CORPORATE RISK MANAGEMENT 12 Hrs

Corporate risk management, riskiness of returns, approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

Unit 4: DERIVATIVES AS RISK MANAGEMENT TOOLS 12 Hrs

Derivatives as risk management tools, features of hedging, forward, future, options and swaps. Classification of derivatives, important features of derivatives.

Unit 5: HEDGING & OPTIONS 12 Hrs

Hedging risks with currency and interest rate futures, index future and commodity futures, Fundamental concepts of options and hedging and risk management with options, Fundamentals of currency and interest rate swaps- risk management with swaps, Fundamental concepts of VAR approach and insurance.

SKILL DEVELOPMENT

- Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools.

BOOKS FOR REFERENCE

- 1) Gopal Krishnan, *Liability Insurance*
- 2) Mishra M.N, *Insurance*
- 3) Mishra M.N, *Insurance Principles and Practice*
- 4) Bose A.K, *Engineering Insurance*
- 5) *Fire Insurance Claim - Insurance institute of India*
- 6) Aramvalathan : *Risk Management I.K. International Publishers*
- 7) *Life Insurance Claims - Insurance institute of India*
- 8) Gupta S.P, *Liability and Engineering Insurance*
- 9) Gupta S.P, *Marine Insurance Claim*
- 10) G. Kotheshwar Rao - *Risk Management*
- 11) N. Gulati - *Risk Management*

6.6 MARKETING OF INSURANCE PRODUCTS

OBJECTIVE

To enable the students to acquire skills in Marketing of Insurance Products

Unit 1: INTRODUCTION TO MARKETING IN THE INSURANCE INDUSTRY 15 hrs

The role of the customer in marketing, The definition of marketing, Marketing and other related business functions within the insurance industry, Creating a marketing strategy for insurance products, Impact of external and internal factors on the marketing strategy, External considerations including: Social - Economic - Competition - Technological - Ecological and Meteorological - Consumer protection, Internal considerations including: Structure - Behaviour - Values.

Unit 2: MARKETING THEORY AND CONCEPTS IN THE INSURANCE INDUSTRY 15 hrs

Insurance customers and their buying patterns, Supply and demand in the insurance industry (including insurance cycle), The marketing mix, Segmentation of existing and prospective customers, Competitive positioning, Differentiation of the product, Financial Value Chain analysis, Portfolio management, The life cycle of insurance products, Analyzing existing insurance customers, Core competencies, Internal auditing of marketing practices, SWOT analysis.

Unit 3: DEVELOP A MARKETING STRATEGY FOR INSURANCE PRODUCTS 15 hrs

Identifying segments in insurance customers, Customer's attributes and behaviours, Using data from customer relationship management systems to feed into strategy, Identifying competitors, Competitor's portfolio of offerings and position, Developing a portfolio of opportunities, Scenario testing, Taking a position in the market, Value and supply chain analysis, Pricing, Regulation, Branding insurance products and services, Establishing a brand, The importance of branding, Brand awareness, Brand extension, White labeling.

Unit 4: IMPLEMENT AND DELIVER A MARKETING STRATEGY 15 hrs

Communicating the marketing message for insurance products and services, The marketing communications portfolio, The marketing message, E-marketing, Advertising, Sales and account management, Public relations, Promotion, Sponsorship, Emergency communications plan, Distributing insurance and finance products and services, Different channels for distribution (including Call centers), Distribution options: Financial advisers - Intermediaries / brokers - Direct selling - Financial institutions, including banc assurance - Aggregators - Other organizations distributing insurance, Risk assessment, Service delivery, Customer experience, including claims, Managing the customer relationship.

BOOKS FOR REFERENCE

- 1) *Marketing: concepts and strategies.* Sally Dibb ... [et al]. 5th European ed. Boston, Massachusetts: Houghton Mifflin, 2005.
- 2) *The marketing casebook.* Sally Dibb, Lyndon Simpkin. 2nd ed. London: Thomson Learning, 2001.
- 3) *Marketing management.* Philip Kotler. 13th ed. London: Pearson Education, 2009.
- 4) *Marketing planning for financial services.* Roy Stephenson. Aldershot, Hants: Gower, 2005.
- 5) *Marketing strategy: the difference between marketing and markets.* Paul Fifield. 3rd ed. London: Butterworth- Heinemann, 2007.
- 6) *Marketing theory: a student text.* Michael J Baker. London: Thomson Learning, 2000.
- 7) *Principles of marketing.* Philip Kotler, Gary Armstrong. 12th ed. International ed. Upper Saddle River, New Jersey: Pearson Education, 2008
- 8) *Innovative Marketing balancing Commercial goals & Corporate responsibility*
- 9) *A Mishra/A Mishra - Marketing strategy.*

Bangalore University
B.Com Syllabus
(New Scheme)

1. COURSE STRUCTURE:

SEMESTER SCHEME OF EXAMINATION UNDER SEMESTER: B.Com COURSE

SEM NO.	PAPER NO.	TITLE OF THE PAPER	LECTURE HOURS PER WEEK	MARKS		TOTAL MARKS
				UE	RM	
I	1.1	LANGUAGE: KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH / MARATHI/ HINDI	04	90	10	100
	1.2	LANGUAGE: ENGLISH	04	90	10	100
	1.3	FINANCIAL ACCOUNTING - I	04	90	10	100
	1.4	PRINCIPLES OF MANAGEMENT	04	90	10	100
	1.5	BUSINESS MATHEMATICS / CLSP	04	90	10	100
	1.6	BUSINESS ECONOMICS – I	04	90	10	100
		TOTAL	24	540	60	600
II	2.1	LANGUAGE: KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH / MARATHI/ HINDI	04	90	10	100
	2.2	LANGUAGE: ENGLISH	04	90	10	100
	2.3	FINANCIAL ACCOUNTING – II	04	90	10	100
	2.4	HUMAN RESOURCES MANAGEMENT	04	90	10	100
	2.5	BUSINESS STATISTICS	04	90	10	100
	2.6	BUSINESS ECONOMICS – II	04	90	10	100
		TOTAL	24	540	60	600
III	3.1	LANGUAGE: (including Communication) KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH / MARATHI/ HINDI	04	90	10	100
	3.2	LANGUAGE: ENGLISH & BUSINESS COMMUNICATION	04	90	10	100
	3.3	CORPORATE ACCOUNTING – I	04	90	10	100
	3.4	MARKETING MANAGEMENT	04	90	10	100
	3.5	INTERNATIONAL BUSINESS ENVIRONMENT	04	90	10	100
	3.6	INDIAN FINANCIAL SYSTEM	04	90	10	100
	3.7	INDIAN CONSTITUTION	04	90	10	100
		TOTAL	28	630	70	700
IV	4.1	LANGUAGE: (including Communication) KANNADA/SANSKRIT/URDU/TAMIL/ TELUGU/ADDITIONAL ENGLISH / MARATHI/ HINDI	04	90	10	100
	4.2	LANGUAGE: ENGLISH & BUSINESS COMMUNICATION	04	90	10	100
	4.3	CORPORATE ACCOUNTING – II	04	90	10	100
	4.4	FINANCIAL MANAGEMENT	04	90	10	100

	4.5	LAW & PRACTICE OF BANKING	04	90	10	100
	4.6	COST ACCOUNTING	04	90	10	100
	4.7	COMPUTER FUNDAMENTALS	04	90	10	100
		TOTAL	28	630	70	700
V	5.1	METHODS & TECHNIQUES OF COST ACCOUNTING	04	90	10	100
	5.2	INCOME TAXES– I	04	90	10	100
	5.3	ENTREPRENEURSHIP DEVELOPMENT PROGRAM	04	90	10	100
	5.4	COMPUTER BUSINESS APPLICATIONS	04	90	10	100
	5.5	ELECTIVE: PAPER I	04	90	10	100
	5.6	ELECTIVE: PAPER II	04	90	10	100
		TOTAL	24	540	60	600
VI	6.1	BUSINESS LAWS	04	90	10	100
	6.2	INCOME TAXES – II	04	90	10	100
	6.3	MANAGEMENT ACCOUNTING	04	90	10	100
	6.4	SERVICES MANAGEMENT	04	90	10	100
	6.5	ELECTIVE : PAPER III	04	90	10	100
	6.6	ELECTIVE : PAPER IV	04	90	10	100
		TOTAL	24	540	60	600
		GRAND TOTAL		3420	380	3800

UE – UNIVERSITY EXAM

RM - RECORD MAINTENANCE

ELECTIVE – I : ACCOUNTING GROUP

- Ø ADVANCED FINANCIAL ACCOUNTANCY
- Ø AUDITING – I
- Ø AUDITING – II
- Ø ACCOUNTING AND INFORMATION SYSTEM

ELECTIVE – II : FINANCE GROUP

- Ø ADVANCED FINANCIAL MANAGEMENT
- Ø FINANCIAL MARKETS
- Ø CORPORATE FINANCIAL POLICY
- Ø FINANCIAL SERVICES

ELECTIVE – III : MARKETING GROUP

- Ø CONSUMER BEHAVIOUR
- Ø MARKETING RESEARCH
- Ø ADVERTISING MANAGEMENT
- Ø SALES AND DISTRIBUTION MANAGEMENT

ELECTIVE – IV : HUMAN RESOURCE GROUP

- Ø INDUSTRIAL RELATIONS
- Ø LABOUR WELFARE AND SOCIAL SECURITY
- Ø COMPENSATION MANAGEMENT AND LABOUR LEGISLATIONS
- Ø HUMAN RESOURCE DEVELOPMENT

ELECTIVE – V : INSURANCE GROUP

- Ø PRINCIPLES AND PRACTICE OF NON-LIFE INSURANCE
- Ø LEGAL ASPECTS OF INSURANCE
- Ø LIFE INSURANCE
- Ø MANAGEMENT OF INSURANCE BUSINESS

ELECTIVE – VI: TAXATION

- Ø DIRECT TAX PLANNING
- Ø COMMERCIAL TAXES
- Ø CUSTOMS ACT AND CUSTOMS TARIFF ACT
- Ø CENTRAL EXCISE ACT AND CENTRAL EXCISE TARIFF ACT

ELECTIVE – VII: INFORMATION SYSTEMS AND MANAGEMENT

- Ø RELATIONAL DATA BASE MANAGEMENT AND MS ACCESS
- Ø SYSTEM ANALYSIS, DESIGN AND INFORMATION SYSTEMS
- Ø PROGRAMMING IN 'C'
- Ø OBJECT ORIENTED PROGRAMMING AND C++ LANGUAGE

1.3 : FINANCIAL ACCOUNTING I

OBJECTIVES

The objective of this course is to acquaint students with the accounting concepts, tools and Techniques influencing business organizations

Unit 1: AMALGAMATION OF FIRMS

14 hours

Meaning-Objectives-Books of accounts in Vendors – Revaluation Account – Goodwill Account – Combined Capital Account – New Firm Account – Passing of Journal Entries – In the books of Amalgamated firm – combined journal entries – Preparation of Amalgamated Balance Sheet – Treatment of assets and liabilities not taken over – Treatment of unrecorded assets and liabilities - Treatment of contingent liabilities

Unit 2: SALE OF PARTNERSHIP TO A LIMITED COMPANY

12 hours

Introduction – Need for conversion - Meaning of Purchase Consideration – Mode of Discharge of Purchase Consideration - Method of calculation of Purchase Consideration – Net Payment Method – Net Asset Method – Passing of Journal Entries and Preparation of Ledger Accounts in the books of Vendor – Treatment of certain items – Dissolution Expenses – Unrecorded Assets and Liabilities – Assets and Liabilities not taken over by the Purchasing Company - Contingent liabilities - non-assumption of trade liabilities - In the books of Purchasing Company – Passing of Incorporation entries – Treatment of Security Premium – Fresh issue of shares and debentures to meet working capital – Preparation of Balance Sheet as per the Companies' Act.

Unit 3: HIRE PURCHASE SYSTEMS

12 hours

Introduction – Meaning – Hire Purchase Act 1972 – Important Definitions – Hire Purchase Agreement- Hire Purchase Price – Cash Price, Hire Purchase Charges, Net Hire Purchase Price –

Net Cash Price – Net Hire Purchase – Important Provisions – Right of the hirer to purchase with rebate – Termination of the agreement – Rights of the owner on termination - Calculation of interest when both the cash price and the rate of interest are given – calculation of interest when cash price is given but rate of interest is not given – calculation of interest when both the cash price and the rate of interest are not given – calculation of cash price – calculation of amount of installment – use of annuity value to find cash price – Journal entries and Ledger accounts in the books of Hire Purchaser and Hire vendor under Asset Accrual method.

Unit 4: **INSTALMENT PURCHASE METHOD**

8 hours

Introduction – Meaning – Difference between Hire Purchase and Installment Purchase system – Treatment of Interest Suspense Account - Journal entries and Ledger account in the books of both parties.

Unit 5: **ROYALTY ACCOUNTS**

14 hours

Introduction – Meaning – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short workings – Recoupment of Short working under Fixed Period – Floating Period – Recoupment within the Life of a Lease – Treatment of Strike and Stoppage of work – Accounting Treatment – in the books of Lessee (Tenant) – when royalty is less than Minimum Rent – When royalty is equal to Minimum Rent – When the right of recoupment is lost, when Minimum Rent Account Method is followed – Preparation of ledger accounts – Royalty Account, Landlord Account – Short workings Account - Minimum Rent Account when Minimum Rent Account is followed.

SKILL DEVELOPMENT

- ?< Collection and recording of Royalty agreement with regard to any suitable situation.
- ?^ Collection and recording of Hire Purchase Agreement.
- ?f Ascertainment of Cash Price and interest under Hire Purchase System.
- ?x Calculation of Purchase Consideration under different methods.
- ?É Arrangement of Mock situation to finalize a sale of firm.
- ?ë Drafting of amalgamation conditions in a given situation.

BOOKS FOR REFERENCE:

1. Dr. S.N. Maheswari , Financial Accounting
2. BS Raman, Financial Accounting
3. Grewal and Gupta, Advanced Accounting
4. Radhaswamy and R.L. Gupta, Advanced Accounting
5. S.Kr. Paul, Advanced Accounting
6. P.C. Tulasian, Pearson Editions, Introduction to Accounting
7. Jain & Narang, Financial Accounting

1.4: PRINCIPLES OF MANAGEMENT

OBJECTIVES:

To familiarise the students with concepts and principles of Management

UNIT – 1:

10 HRS

Management: Introduction - Meaning, nature and characteristics of Management - Scope and functional areas of management - Management as a science art or profession - Management & Administration - Principles of management - Social responsibility of management and Ethics.

UNIT – 2:

8 HRS

Planning : Nature importance and purpose of planning - Planning process, Objectives - Types of plans (Meaning only) - Decision making – importance & steps.

UNIT – 3:

14 HRS

Organising and Staffing : Nature and purpose of organisation, Principles of organisation - Types of organization - Departmentation, Committees - Centralisation Vs decentralisation of authority and responsibility - Span of Control - MBO and MBE(Meaning only) - Nature and importance of staffing - Process of selection & recruitment(in brief).

UNIT – 4:

14HRS

Directing : Meaning and nature of directing - Leadership styles - Motivation theories (Maslow's, Herzberg, McGregors X & Y theory) - Communication meaning and importance, barriers to communication, types of communication - Coordination meaning and importance.

UNIT – 5:

10 HRS

Controlling : Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control(in brief).

SKILL DEVELOPMENT:

? Different types of Organisation Charts (structure).

?1 Chart on Staffing.

?V Graphic representation of Maslow's Theory.

?w Chart on Media of Communication.

?œ Chart on sources of recruitment.

?¾ Draft Control chart for different industry / business groups.

BOOKS FOR REFERENCE:

1. Koontz & O'Donnell, Management.
2. Appaniah & Reddy, Essentials of Management.
3. L M Prasad, Principles of management.
4. Rustum & Davan, Principles and practice of Management.
5. Srinivasan & Chunawalla, Management Principles and Practice.
6. S V S Murthy, Essentials of Management.
7. Thomas. N. Duening & John. M. Ivan cevich, Management, Principles and Guidelines, Biztantra Publications.
8. Tripathi & Reddy, Principles of Management.

1.5 : BUSINESS MATHEMATICS / COMPANY LAW AND SECRETARIAL PRACTICE

OBJECTIVE:

To provide basic knowledge of mathematics and application of mathematics to commercial situations.

UNIT – 1 : 3 hours

Number System: Natural numbers, even – odd numbers, integers, prime numbers, rational, irrational and real numbers, HCF & LCM.

UNIT – 2 : 10 hours

Theory of equations: meaning, types of equations –simple linear and simultaneous equations (only two variables) eliminations and substitution method only. Quadratic equation factorization and formula method ($ax^2 + bx + c = 0$ form only) problems on commercial application.

UNIT – 3: 12 hours

Progressions: Arithmetic progressions finding the 'n'th term of an AP and also sum to 'n' terms of an AP. Insertion of Arithmetic means in given terms of AP and representation of AP. Geometric progression: finding n^{th} term of GP. Insertion of GMs in given GP and also representation of GP.

UNIT – 4: 12 hours

Matrixs and Determinants: meaning and types of matrices –operations of addition, subtraction, multiplication of two matrixs – problems, transpose and determinant of a square matrix- minor of an element co-factor of an element of a determinants. Problems application of determinants of business problems, adjacent of a square matrix, singular and non singular matrices – inverse of square matrix – solutions of system of linear equations in two variables using Cramer's rule.

UNIT – 5: 23 hours

Commercial Arithmetic: simple interest, compound interest including half yearly and quarterly calculation. Percentages, bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. A/c proportions, fourth, third and inverse proportion problems.

SKILL DEVELOPMENT:

?w Develop an Amortization Table for Loan Amount – EMI Calculation.

?œ Prepare a Overhead Machine / Labour hour rate through matrices.

?¾ Prepare a Bank Statement using SI and CI.

?ã Prepare a Case study.

BOOKS FOR REFERENCE:

1. Dr. A K ARTE & R V PRABHAKAR: A textbook of Business Methematics.
2. DORAI RAJ : Business Mathematics.
3. SANCHETHI AND KAPOOR: Business Mathematics
4. ZAMIRUDDING KHANNA: Business Mathematics
5. SAHA: Mathematics for Cost Accountants
6. SONI: Business Mathematics.

COMPANY LAW AND SECRETARIAL PRACTICE

OBJECTIVE:

To enable the students to get familiarised with the existing Company Law and Secretarial Procedure.

UNIT – 1:

8 hours

Company:- Legislative back drop of Companies Act – Meaning and definition, Kinds of Companies – Limited and unlimited, private and public, government companies, statutory companies.

UNIT – 2:

8 hours

Secretary:- Meaning and definition, position and appointment, rights, duties, liabilities, qualifications, removal.

UNIT – 3:

10 hours

Formation of Companies:- Promotion, incorporation, capital, subscription, commencement of Business.

UNIT – 4:

12 hours

Documents of Companies:-

- a. Memorandum of Association – definition, clauses, provisions and procedures for alteration.
- b. Articles of Association – definition, contents, provisions and procedures for alteration, distinction between Memorandum and Articles of Association.
- c. Prospectus – Contents – Statements in Lieu of Prospectus.

UNIT – 5:

12 hours

Management of Companies:- Appointment, Qualification, Rights, Responsibilities and liabilities of Directors, Managing Director.

UNIT – 6:

10 hours

Meetings:- Statutory, Annual, Extra ordinary and Board Meetings, Resolutions – Types.

SKILL DEVELOPMENT:

?w Drafting of Memorandum of Association, Drafting Articles of Association.

?œ Drafting Notice of Company Meetings – Annual, Special and Extra ordinary, Board.

?¾ Drafting Resolutions – different types.

?ã Chart showing Company organization.

? Chart showing different types of Companies.

BOOKS FOR REFERENCE:

1. M.C. Shukla & Gulshan : Principles of Company Law.
2. N.D. Kapoor : Company Law and Secretarial Practice.
3. M.C. Bhandari: Guide to Company Law Procedures.
4. Tuteja : Company Administration and Meetings.
5. S.C. Kuchchal : Company Law and Secretarial Practice.
6. Dr. P.N. Reddy and H.R. Appanaiah: Essentials of Company Law and Secretarial Practice, Himalaya Publishers.
7. M.C Kuchchal, Secretarial Practice.
8. Ashok Bagrial, Secretarial Practice.

1.6 : BUSINESS ECONOMICS I

OBJECTIVES:

The objective of this paper is to make the student to understand how the business organisations work by applying economic principles in their business management.

UNIT 1

Business Economics: Meaning- definitions- characteristics – distinction between business economics and economics – scope of business economics – uses/objectives of business economics –role and responsibilities of business economist.

10 HOURS

UNIT 2

Consumer Behaviour: Consumer sovereignty-limitations.

Approaches to the study of consumer behaviour-cordinal approach-the law of equi-marginal utility, ordinal approach – indifference curve analysis-properties –consumer surplus – meaning-analysis-limitations

20 HOURS

UNIT 3

Theory of Demand and Analysis: Demand- demand determinants – law of demand-characteristics-exceptions –elasticity of demand – price elasticity – types – determining factors- change in demand and elasticity of demand-business applications of price elasticity- concepts of income and cross elasticity of demand. Price elasticity of demand measurement by total outlay method.

14 HOURS

UNIT 4

Demand Forecasting: methods: a) survey of buyers intention b) collective opinion c) trend projection d) economic indicator. Demand forecasting methods for a new product.

6 HOURS

UNIT 5

Law of Supply - meaning- determinants of supply and its influence on cost of production.

Production Function: Equilibrium through Isoquants and Isocosts- managerial uses of production function- law of variable proportions – economies of large scale of production- diseconomies of large scale production.

10 HOURS

SKILL DEVELOPMENT:

?S Draft the diagrammatic representation of each aspect of the chapter in a book under different chapters.

?à Select and discuss the case studies that will have impact on business decision making in each chapter.

?m A Survey report on the demand forecasting for a product.

?- Student to choose a product and apply price elasticity in real situation.

?ù Detail charts on Consumer Surplus.

BOOKS FOR REFERENCE:

1. Joel Dean: Managerial Economics
2. Sankaran : Business Economics
3. Varsheney and Maheswari : Managerial Economics
4. D M Mithani : Business Economics
5. Seth M L Text Book of Economic Theory
6. K K Dewett : Economic Theory
7. Petersen & Lewis: Managerial Economics
8. Mote V L peul. S & Gupta G S: Managerial Economics TMH
9. H. Craig Petersen & W. Cris lewis: Managerial Economics, PHI.
10. Dr. P.N. Reddy and H.R. Appanaiah : Essentials of Business Economics.
11. Barry Keating and J. Holton Wilson: Managerial Economics, Biztantra.

2.3 : FINANCIAL ACCOUNTING II**OBJECTIVES:**

The objective of this course is to provide a brief idea about the framework of certain allied aspects of accounting treatment.

Unit 1: INSURANCE CLAIMS

10 hours

Introduction – need – Loss of Stock Policy – Preparation of statement of Cost of Goods sold – Preparation of Statement to ascertain value of stock on the date of Fire - Treatment of Salvage – Valuation of stocks prior to date of fire -calculation of GP. Ratio when GP Ratio is not given - Treatment of Average Clause Treatment of Abnormal items -

Unit 2: CONVERSION OF SINGLE ENTRY TO DOUBLE ENTRY

10 hours

Introduction – Need for conversion - Preparation of Statement of Affairs – CashBook – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit and Loss Account – Balance Sheet.

Unit 3: BRANCH ACCOUNTS

20 hours

Introduction – Inland Branches – Types – Dependant – Preparation of Branch Accounts in Head Office Books – Treatment of Cost Price – Invoice Price - Debtors Account – Creditors Account – treatment of Petty cash – prepaid insurance – creation of stock reserve – independent branches – preparation of Head Office Account in Branch Books – Branch Account in Head Office Books – Memorandum Trading and Profit and Loss Account in Head Office books - Incorporation of Trial Balance of branch in Head Office Books - Adjustment entries – goods-in-transit - cash-in-transit – depreciation of Branch Assets- services rendered by Branch to Head Office and vice versa – Receipts and payments by Branch on behalf of Head Office and vice versa – Reconciliation of Branch and Head office Current Accounts.

Unit 4: DEPARTMENTAL ACCOUNTING

12 HOURS

Introduction – Allocation of expenses – Calculation of Departmental Purchases – Inter Departmental transfers at cost price – selling price – preparation of Balance Sheet

Unit 5: ACCOUNTING STANDARDS

08 HOURS

Introduction - Formation of Accounting Standards Board – Scope and functions of Accounting Standards Board - Problems based on various accounting standards

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Preparation of a Balance Sheet under vertical format of a Propertership Concern.
- Collection of transactions relating to any branch
- Collection of final accounts of departmental organizations.
- List out the Departmental Stores that you have visited.
- Mock display of sole trader and discussion of their transactions.
- Collecting the details regarding the fire claim settlement of a particular Case and recording the important points.

BOOKS FOR REFERENCE:

1. Dr. S.N. Maheswari , Financial Accounting
2. B S Raman, Financial Accounting
3. Grewal and Gupta, Advanced Accounting
4. Radhaswamy and R.L. Gupta, Advanced Accounting
5. S.Kr. Paul, Advanced Accounting
6. P.C. Tulasian, Pearson Editions, Introduction to Accounting
7. Jain & Narang, Financial Accounting

2.4 : HUMAN RESOURCES MANAGEMENT

UNIT – 1:

Human Resource Management – Meaning of HRM, Importance of HRM, Objectives and functions, process of HRM, systems and techniques, Role of human resource manager, duties and responsibilities of human resource manager, typical organization set up of human resource department. 6 hours

UNIT – 2:

Human Resource planning, Recruitment, Selection and Placement – Meaning and importance of human resource planning, benefits of human resource planning, Meaning of recruitment, selection, placement and training – Methods of Recruitment and selection – Uses of tests in selection, problems involved in placement. 8 hours

UNIT – 3:

Training and Induction – Meaning of Training and Induction, objective and purpose of induction, Need for training, benefits of training, identification of training needs, methods of training. 8 hours

UNIT – 4:

Performance Appraisal and Compensation – Meaning of performance appraisal, objectives of performance appraisal, methods of performance appraisal and limitations. Principles and techniques of wage fixation, job evaluation, compensation – meaning of compensation, objectives of compensation. 8 hours

UNIT – 5:

Promotion and Transfers – Purpose of promotion, basis of promotion, meaning of transfer, reasons for transfer, types of transfer, right sizing of work force. Need for right sizing. 10 hours

UNIT – 6:

Work Environment – Meaning of work environment, fatigue, implications of fatigue, causes and symptoms of fatigue, monotony and boredom, factors contributing to monotony and boredom, Industrial accidents, Employee safety, Morale, Grievance and Grievances handling, Personnel records and personnel Audits. 5 hours

UNIT – 7:

HRD – Meaning of HRD, Role of training in HRD. Knowledge management, knowledge resources, impact of globalisation on human resource management, problems in relation to trans nationals and multi nationals. 5 hours

SKILL DEVELOPMENT:

- ?• Scheduling hiring procedure to hire (a) Computer Operator (b) Supervisor (c) Manager – HR.
- ? Designing a training programme to train (a) sales person (b) Machine operator (c) Accountant
- ?¢ Preparing job description and job specification for any two jobs.
- ?4 Conducting exit interviews for hypothetical VR employees.

BOOKS FOR REFERENCE:

1. C.B. Mamoria, Personnel Management.
2. Edwin Flippo, Personnel Management.
3. Aswathappa. K, Human Resource Management
4. Subba Rao, Human Resources Management.
5. Michael Porter, HRM and Human Relations.
6. Biswanath Chosh, Human Resource Development and Management.

2.5 : BUSINESS STATISTICS

OBJECTIVES:

To enable students to grasp the fundamentals of Statistics for interpreting business data.

UNIT – 1:

4 Hours

Background and Basic concepts: Introduction – Definition of Statistics – Function – Scope – Limitations.

UNIT – 2:

20 Hours

Measures of Central Tendency: Introduction – Types of averages – Arithmetic Mean (Simple and Weighted) – Median – Mode.

UNIT – 3:

12 Hours

Measure of Dispersion: Range – Quartile Deviation – Mean Deviation – Standard Deviation and Coefficient of Variation.

UNIT – 4:

12 Hours

Correlation and Regression Analysis: Meaning – Types – Probable error – Karl Pearsons & Rank Correlation (Excluding bivariate and Multi correlation).

UNIT – 5:

12 Hours

Index Numbers: Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher Ideal method including Time and Factor Revertibility tests – Consumer Price Index.

SKILL DEVELOPMENT:

- ?ð Preparation of Model Questionnaire.
- ?,, Collection of Data and computation of various averages.
- ? Analysis of data by computing standard deviation and coefficient of variation.
- ? Comparing and correlating data.
- ?8 Construction of Index Numbers from the collected data.
- ?Ë Presentation of data in graphs and diagrams.

BOOKS FOR REFERENCE:

1. S P GUPTA: Statistical Methods- Sultan Chand, Delhi
2. Dr. B N GUPTA: Statistics (Sahitya Bhavan), Agra.
3. C B GUPTA: Statistics, Himalaya Publications.
4. ELLAHANCE : Statistical Methods
5. Dr. Asthana: Elements of Statistics, Chaitanya.
6. Dr. Sancheti & Kapoor : Statistics Theory, Methods and Application.
7. Chikkodi & B.G. Satya Prasad: Business Statistics, Himalaya Publications.
8. J.S. Chandan, Business Statistics.
9. Agarwal, Business Statistics.
10. Sharma, Business Statistics, Pearson.

2.6 : BUSINESS ECONOMICS II

OBJECTIVES:

The objective of this paper is to give exposure to the current problem of the Indian Economy and how these problems affect the working of business organisations and how the international organisations helps an economy to overcome these problems.

UNIT – 1:

Market Structure:

- A. Perfect competition- features – price and output determination- influence of time element on price and output
- B. Monopoly – features – price and output determination – price discrimination – price output determination under discriminating monopoly
- C. Monopolistic competition- features – price and output determination in short run and in industry.
- D. Features of duopoly and oligopoly.

20 HOURS

UNIT – 2:

Pricing Policy - general considerations –objectives – factors involved in pricing policy.

5 HOURS

UNIT - 3 :

Business Cycles – phases of business cycle - effects of business cycle –measures to control the business cycle.

7 HOURS

UNIT – 4:

Balance of Trade and Balance of Payments – components of balance of payments- disequilibrium in the balance of payments – methods of correction of disequilibrium – India’s balance of payments crisis of 1990’s. 8 HOURS

UNIT - 5

Foreign Trade and Economic Development - foreign aid in economic development: types, role of foreign trade, factors determining the amount of foreign aid for economic development.

Private foreign investment and multinational corporations- types, merits and demerits.

15 HOURS

UNIT – 6:

Exim policy 2002-07; highlights; critical evaluation of Exim policy

5 HOURS

SKILL DEVELOPMENT:

?ç Prepare charts for 1st Unit.

?4 Chart out the factor influencing pricing policy.

?< Present a diagram showing business cycles.

?° Present the Balance of Payment chart of India for the latest year

?Ñ Collect and present in tabular form foreign aid to India during at least last 5 years.

BOOKS FOR REFERENCE:

1. M L Jhingan: International Economics
2. Niravathi & C Ramani Nair: International Economics
3. Joel Dean: Managerial Economics
4. Sankaran : Business Economics
5. Varsheney and Maheswari : Managerial Economics
6. D M Mithani : Business Economics
7. Seth M L Text Book of Economic Theory
8. K K Dewett : Economic Theory
9. Petersen & Lewis: Managerial Economics
10. Mote V L peul. S & Gupta G S: Managerial Economics TMH

3.2 : BUSINESS COMMUNICATION – I

OBJECTIVE:

The object of this subject is to cultivate effective communication skills oral as well as written in the students.

UNIT – 1:

4 Hours

Business Letters – essentials and types.

UNIT – 2:

12 Hours

Accounts –

- a. Letters to customers regarding dues – follow up.

- b. Letters to banks regarding overdrafts, cash credit and account current.
- c. Letter to insurance and payment, renewal of insurance of policy, claims and their settlement.
- d. Letters to public authorities like P.F. Commissioner, P & T etc. regarding payment of P.F. contributions, installation of new connections and payment of telephone bills, payment of sales tax, tax deducted at source.

UNIT – 3: 7 Hours
Purchase: Request for quotations, tenders, samples and drawings, complaints and follow up.

UNIT – 4: 7 Hours.
Sales: Drafting of sales letters, circular letters, status enquiries.

SKILL DEVELOPMENT:

A minimum of 5 exercises to be recorded on the above chapters.

BOOKS FOR REFERENCE:

1. R.C. Sharma & Krishna Mohan: Business Communication & Report Writing, TMH, New Delhi.
2. Raman. S & Swami. R: Business Communication – A Practical Approach, Professional Publications, Madras.
3. Ramesh & Pattanashetti: Effective Business English & Correspondence.
4. Majumdar: Commercial Correspondence.
5. Urmila Rai: Commercial Correspondence.
6. Pink and Thomsan: English Grammar, Composition and Correspondence.
7. P N Reddy and Appanniah: Essentials of Business Communication.

3.3 : CORPORATE ACCOUNTING I

OBJECTIVES:

This course enables the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards that are likely to be introduced from time to time.

Unit 1: UNDERWRITING OF SHARES 8 hours

Meaning – Terms used in underwriting – underwriter – marked application – unmarked application – partial underwriting – firm underwriting – calculation of underwriting commission – Preparation of statement showing allocation of gross liability and net liability. SEBI guidelines for underwriting.

Unit 2: REDEMPTION OF PREFERENCE SHARES 12 hours

Meaning – legal provisions – treatment regarding premium on redemption – Creation of Capital Redemption Reserve Account (CRR) – Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance Sheet after redemption.

Unit 3: VALUATION OF GOODWILL

10 hours

Meaning – Definition – Elements of goodwill – Types of Goodwill – Purchased Goodwill – Non-purchased or inherent Goodwill – Valuation of Non-purchased Goodwill – Average Profit Method – Super Profit Method – Capitalization of Average Profit Method – Capitalization of Super Profit Method – Annuity Method

Unit 4 : VALUATION OF SHARES

10 hours

Meaning – need for valuation – factors affecting valuation – methods of valuation – Asset Backing or Intrinsic Value Method – Yield Valuation Method – Dividend Yield – Fair Value method - value of right shares – valuation of preference shares.

Unit 5. COMPANY FINAL ACCOUNTS

20 hours

Knowledge on requirements of Companies Act for presentation of Profit and Loss Account and Balance Sheet of a company – Treatment of special items relating to Company Final Accounts- Depreciation – Interest on Debentures – Tax – Dividends – interim – proposed – unclaimed – interest out of Capital – managerial remuneration – commission after charging such commission – Treatment of Profit and Loss Appropriation Account – Preparation of Balance Sheet as per the requirements of Companies Act Amendment 1993.

SKILL DEVELOPMENT

- ?< Collection of application form of a Company for shares and filling.
- ?° Collection of Prospectus of a company and deciding whether or not to
- ?Ñ Invest in the shares of that company recording reasons.
- ?ö Visit to an Underwriter's office and collection of information.
- ? List out any five names of institutional underwriters.
- ?< Collection of latest final accounts of a company and find out the net
- ?^ Asset value of shares
- ?f List out the conditions to be fulfilled for redemption of Preference shares.
- ?æ Evaluate the goodwill based on a company's Balance Sheet.

BOOKS FOR REFERENCE:

1. S.N. Maheswari , Financial Accounting.
2. Narayanaswamy , Financial Accounting.
3. SP Iyengar, Advanced Accountancy.
4. RL Gupta, Advanced Accountancy.
5. Jain and Narang, Corporate Accounting.
6. Tulsian, Advanced Accounting.

3.4 : MARKETING MANAGEMENT

OBJECTIVES:

To help students to understand the concept of marketing and its applications. Also to expose the students to the latest trends in marketing.

UNIT – 1:

Introduction to Marketing :

6 Hrs

Definition, nature, scope and importance of marketing, Approaches to the study of marketing and economic development, traditional and modern concept of marketing. Functions of marketing.

UNIT – 2:

Marketing Environment (Micro & Macro)

12 Hrs

(Analysing needs & trends in the Macro environment – Demographic, Economic Natural, Technological, Political – Legal, Socio cultural environment)

Marketing Mix – The elements of marketing mix

Market Segmentation: Bases for Market segmentation, Requisites of sound marketing segmentation – Market Targeting strategies –Positioning – Undifferentiated marketing – Concentrated marketing.

UNIT – 3:

Product

12 Hrs

Classification of products, Product mix decision- Product line, product addition & deletion, Product life cycle, Product planning, New product development process, Strategies- Branding –Packaging.

UNIT – 4:

Pricing

4 Hrs

Pricing objectives, price determination, factors influencing pricing policy, method of pricing policies and strategies.

UNIT – 5:

Channels of distribution and Logistics

12 Hrs

Definition – Need – channel design decision – channel management decision – factors affecting channels, Types of marketing channels.

UNIT – 6:

Promotion

8 Hrs

Nature and importance of promotion, Promotional methods – Advertising decisions, sales promotion, public relation, direct selling. Advertising copy, evaluation of advertising, personal selling and sales promotion.

UNIT – 7:

Recent Trends in Marketing

4Hrs

E-business, Tele-marketing, M-Business, Relationship Marketing, Retailing, Concept Marketing and Virtual Marketing.

SKILL DEVELOPMENT:

?ã Identify the producer of your choice and describe in which stage of the product life cycle it is positioned.

?S Suggest strategies for development of a product.

?– Select a producer and describe in advertising endeavor for it, since its introduction.

?'' Study of Consumer Behaviour for a product of your choice.

?m State the policy needed for fixing a Minimum support price for an agricultural product.

?~ Develop an Advertisement copy for a product.

?ù Prepare charts for distribution network for different products.

BOOKS FOR REFERENCE:

1. Philip Kotler - Marketing Management
2. J.C. Gandhi - Marketing Management
3. William M. Pride and O.C. Ferrell – Marketing.
4. Stanton W.J. etzal Michael & Walker, Fundamentals of Management.
5. Armstrong & Kotler, Marketing : An Introduction, Pearson.

6. P N Reddy & Appanniah, Essentials of Marketing Management.
7. R.S. Davar, Marketing Management, Progressive Corporation.
8. Joel R. Evans and Barry Berman, Marketing, Biztantra publications.
9. Neelamegham, Marketing in India.

3.5 : INTERNATIONAL BUSINESS ENVIRONMENT

OBJECTIVE:

To familiarise the students with international trade - business environment

UNIT 1:

Evolution of International business – characteristic features of International business – factors affecting the international business – Changing scenario of International Business.

12 hours

UNIT – 2:

International Business Environment – economic – political – legal, social – culture, technological

5 hours

UNIT 3:

Multinational corporations – Global companies – international business houses – concepts, structures and functions.

5 hours

UNIT 4 :

International finance; Foreign Exchange – convertibility of rupee (Basics) forex market – structure and functions. World Bank, IMF, UNCTAD

8 hours

UNIT 5:

International Marketing: product – packing – promotion

10 hours

UNIT 6:

International Human Development: recruitment – selection and development policies.

10 hours

UNIT 7:

Regional Trading Blocks: EU, NAFTA, SAARC, WTO

15 hours

SKILL DEVELOPMENT:

- ?- List atleast 3 MNCs of G-7 Countries operating in India along with products they manufacture.
- ?ù Preparation of a chart on different currencies of different countries.
- ?< Table of atleast one month data of Foreign exchange rate of atleast 2 currencies.
- ?† Latest news affecting India through WTO, World Bank, IMF etc.
- ?’ Chart of product life cycle of International product.
- ?’ Description of procedures followed in recruitment / selection of atleast one MNC in India.

BOOKS FOR REFERENCE:

1. Dr. K Aswathappa - International Business TMH
2. Subba Rao- International Business HPH
3. Bennet – International Business, Pearson Education.
4. Daniels – International Business : Environment and Operations, Pearson.
5. Joshi – International Business Environment.
6. Rugman – International Business.
7. Sharan – International Business.

3.6 : INDIAN FINANCIAL SYSTEM

OBJECTIVES:

The objective of this course is to familiarise the students with regard to structure, organization and working of financial system in India.

UNIT – 1: 16 hours
Financial System: Institutions, Markets – primary, secondary, money and Capital markets, Instruments of Money Market, Functions and their Economic Significance.

UNIT – 2: 16 hours
Commercial Banks - Functions – Structure of Commercial banks in India – sources of funds, Investment norms – factors determining liquidity of banks – Asset structure of commercial banks – profitability of banks.

UNIT – 3: 12 hours
Financial Institutions: IDBI, SFCS, SIDCS, LIC, Mutual Funds, EXIM Bank – Constitution, objectives and functions.

UNIT – 4: 10 hours
Regulatory Institutions – RBI – Organisation, Objectives, Role and Functions, Monetary policy of the RBI, NABARD. The Securities and Exchange Board of India, Organisation and Objectives.

UNIT – 5: 6 hours
Banking Innovations – New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic fund transfer, MICR.

SKILL DEVELOPMENT:

- ?S Prepare a chart showing the organisational structure of a commercial bank.
- ?– Draft a chart showing the Financial services in the Indian Financial System.
- ?à Prepare a chart showing the Instruments traded in the Financial Market.
- ?” Collect loan application forms for short, medium and long term loans of commercial banks and paste them in the record.
- ?– Draft the application forms for opening a Fixed, Current and Savings Bank A/cs.
- ?ù Collection and recording of Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- ?< Specimen of Debit and Credit cards.
- ?† Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE:

1. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill

2. L M Bhole: Financial Institutions and Markets, Tata Mcgrah Hill
3. Vasantha desai : The Indian Financial System, HPH
4. M Y Khan: Indian Financial System, TMH
5. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
6. E Gardon & K Natarajan: Financial Markets & Services.
7. Nayak, Indian Financial System.
8. Pathak, Indian Financial System.

3.7 : INDIAN CONSTITUTION

UNIT – 1:

- a. Framing of the Indian Constitution: Role of the Constituent Assembly.
- b. Philosophy of the Constitution: Objectives, resolution, preamble, fundamental Rights and Duties. Human rights and Environmental protection.

UNIT – 2:

- a. Special Rights created in the Constitution of Dalits, Backward Classes, Women and Children, and religious and linguistic minorities.
- b. Directive Principles of State policy: The need to balance fundamental rights with directive principles.

UNIT – 3:

- a. Union Executive: President, Prime Minister and Council of Ministers; powers and functions, coalition Government, problems in their working.
- b. Union Legislature: Lok Sabha and Rajya Sabha, powers and functions. Recent trends in their functioning.

UNIT – 4:

7. State Government: Governor, Chief Minister and Council of ministers, Legislature.
8. Centre – State relations: Political, financial, administrative: Recent Trends.

UNIT – 5:

- a. Judiciary: Supreme Court, Judicial Review, Writs, Public interest litigations. Enforcing rights through writs.
- b. Emergency provisions (Article 356)

BOOKS FOR REFERENCE:

1. D.D. Basu – Introduction to the Indian Constitution.
2. A.S. Narang – Indian Constitution, Government and Politics.
3. Nani Palkhivala – We, the People, UBS Publishers, New Delhi, 1999.
4. A.G. Noorani – Indian Government and Politics.
5. J.C. Johari – Indian Government and Politics Vol. I & II, Vishal, New Delhi.
6. Gran Ville Austin – The Indian Constitution – Corner stone of a Nation, Oxford, New Delhi, 2000.
7. M.U. Pylee, Constitutional Government in India.
8. K.K. Ghai, Indian Constitution.

4.2 : BUSINESS COMMUNICATION – II

OBJECTIVE:

The object of this subject is to cultivate effective communication skills oral as well as written among the students.

UNIT – 1: 8 Hours

Personnel: Letters calling candidates for written test, drafting interview letters, offer of appointment, provisional appointment orders, final order of appointment, employee disciplinary matters, show cause notices, charge sheets, letters of dismissal and discharge.

UNIT – 2: 8 Hours

Secretarial: Correspondence with shareholders and debenture holders relating to dividends and interest, transfer and transmission.

UNIT – 3: 5 Hours

Inter – Departmental Communication: Internal memos, office circulars, officer orders, office notes.

Communication with regional / branch offices.

UNIT – 4: 2 Hours

Modern Communication Devices: Internet, teleconferencing, Mobile Phones, Computers, Laptops, Close circuit TVs. Word processing, Teleprinter, Desktop publishing, Telewriting, Electronic Mail (e-mail), Audio Conferencing, Video Conferencing, E-Commerce, Duplication Technology Duplicator, photocopying, Printing, Storage devices.

UNIT – 5: 7 Hours

Miscellaneous: Drafting telegraphic message, correspondence with agents and transport companies, public notices and invitations, representations to trade associations and chambers of Commerce.

SKILL DEVELOPMENT:

A minimum of 5 exercises are to be recorded on the above chapters.

BOOKS FOR REFERENCE:

1. R.O. Sharma & Krishna Mohan: Business Communication & Report Writing, TMH, New Delhi.
2. Raman. S & Swami. R: Business Communication – A Practical Approach, Professional Publications, Madras.
3. Ramesh & Pattanashetti: Effective Business English & Correspondence.
4. Majumdar: Commercial Correspondence.
5. Urmila Rai: Commercial Correspondence.
6. Pink and Thomsan: English Grammar, Composition and Correspondence.
7. R.K. Madhukar : Business Communications, Vikas.
8. Kumar: Business Communication.
9. Bovee: Business Communication Today.

4.3 : CORPORATE ACCOUNTING II

OBJECTIVES:

This course enables the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards that are likely to be introduced from time to time.

Unit 1: AMALGAMATION OF COMPANIES

15 hours

Calculation of Purchase consideration – Take over basis- Net payment basis adopting Accounting Standards 14 and other relevant standards – treatment of fractional shares – liquidation expenses met by Purchasing Company – Passing of Journal Entries – of Ledger Accounts in the books of Vendor - Net Asset Method – Passing of Journal Entries and preparation of ledger accounts – In the books of Purchasing Company – passing incorporating entries – finding out Goodwill or Capital Reserve – treatment of inter- company debts - stock and investment – incorporation expenses – preparation of Balance Sheet

Unit 2 : ABSORPTION

15 hours

Calculation of Purchase consideration of Purchase Consideration under Net Payment and Net Asset Methods adopting AS-14 and other relevant Accounting Standards as introduced from time to time – treatment of dissolution expenses met by Purchasing Company – Assets and liabilities not taken over – intrinsic value of shares – Fractional shares - Passing of Journal Entries – Preparation of Ledger Accounts in the books of Vendors – Incorporation entries – treatment of Security Premium - Preparation of Balance Sheet after absorption in the Purchasing Company –

Unit 3: EXTERNAL RECONSTRUCTION

10 hours

Calculation of Purchase Consideration under Net Payment and Net Asset methods – Passing Journal Entries – Ledger preparation in the books of Vendor and preparation of Balance Sheet after reconstruction incorporating all the concepts mentioned in absorption.

Unit 4: INTERNAL RECONSTRUCTION OR CAPITAL REDUCTION

10 hours

Meaning – Objective – Procedure – form of reduction – accounting arrangements – passing of Journal Entries – Preparation of Balance Sheet after Reconstruction –

Unit: 5 LIQUIDATION

10 hours

Voluntary Liquidation – Preparation of Liquidator's Statement of affairs – order of payment - calculation of commission on Assets Realized – payment to unsecured creditors – payment to unsecured creditors other than preferential creditors – calculation of pro rata- treatment of uncalled capital – liability of contributors.

SKILL DEVELOPMENT

- ?- Calculation of Purchase consideration with imaginary figures
- ?à List any 5 cases of amalgamation / absorption of Joint Stock Companies
- ?m Preparation of Liquidator's final statement of accounts with
- ?- Imaginary figures assuming yourself as a liquidator.
- ?ù Identify the legal provisions with respect to internal reconstruction.
- ?< Arrange a Mock court to discuss the need for internal reconstruction.
- ?† Prepare a draft scheme for absorption or merger.
- ?? Discuss the result of scheme prepared in the open class.
- ?' Prepare a SWOT analysis of a Company

BOOKS FOR REFERENCE:

0. S.N. Maheswari , Financial Accounting.
1. RL Gupta, Advanced Accountancy.
2. SP Iyengar, Advanced Accountancy.
3. Patil Korlahalli, Financial Accounting.
4. Jain and Narang, Corporate Accounting.
- Tulsian, Advanced Accounting.

4.4 : FINANCIAL MANAGEMENT

OBJECTIVES:

To give insight into financial decision making and composition of different securities in the total capital structure.

UNIT 1

Financial Management- finance function – aims of finance function – financial management – goals of financial management – financial decisions – financial planning – objectives and principles of sound financial planning – long term and short term financial plan – factors affecting financial plan.
10 HOURS

UNIT 2

Financing Decisions – capital structure – factors influencing capital structure – EBIT – EBT- EPS – analysis - leverage – problems.
10 HOURS

UNIT 3

Investment Decisions – capital budgeting – significance – techniques of evaluation of investment proposals- payback method – return on investment method, net present value method – (simple problems only)
20 HOURS

UNIT 4

Dividend Decisions – dividend policy – determinants of dividend policy – types of dividend policy – forms of dividend.
5 HOURS

UNIT 6

Working Capital Management – meaning – importance of adequate working capital- excess or inadequate working capital – determinants of working capital requirement – cash management, receivable management and inventory management – sources of working capital.
15 HOURS

SKILL DEVELOPMENT:

- ?m Identify the decision areas in which a financial manager has a role to play.
- ?- Prepare a Capital Budget for your new Business.
- ?ù Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- ?† Prepare an aging schedule of debtors with imaginary figures.
- ?’ Capital structure analysis of companies in different industries
- ?’ Study of dividend policy practices of certain companies in India.

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management.
2. Khan and Jain, Financial Management.
3. Dorai Raj. S.N, Financial Management.
4. Sharma and Sashi Gupta, Financial Management.
5. I M Pandey, Financial Management.
6. James C Vanhorne, Financial Management.
7. Prasanna Chandra, Financial Management.
8. PN Reddy & Appanaiah, Financial Management.

4.5 LAW & PRACTICE OF BANKING

OBJECTIVES: To familiarise the students to understand the law and practice of banking.

CHAPTER- 1: 6 Hrs
Banker and Customer: General and special relationship.

CHAPTER - 2: 12 Hrs
Paying Banker: Nature of banking business, negotiable instruments and their characteristics, payment of cheques and protection to the paying banker dishonors of cheques - grounds - payment of cheque and other instruments - mandatory function of the banker.

CHAPTER - 3: 12 Hrs
Collecting-Banker: Collection of cheques and other instruments-protection to the collecting banks under the negotiable instruments Act - endorsements on cheques. Bills of exchange - different types of endorsements - forged endorsements. Holder of value - holder/payment in due course.

CHAPTER - 4: 15 Hrs
Types of Customers and Account holders: Procedure and practice is opening and conducting the accounts of customers particularly individuals including minors - joint account holders. Partnership firms - joint stock companies with limited liability-executors and trustees-clubs and associations-joint Hindu family etc.. Step to be taken on death, lunacy, bankruptcy, winding up or in cases of garnishee orders-non-resident accounts - accounts of Govt. Departments, payment of pension-certificate of deposit

CHAPTER – 5: 5 Hrs
Services to Customers: Remittance of funds by demand drafts, mail transfers, telegraph/telex transfers - safe,y lockers safe custody of articles – standing instructions - credit cards.

CHAPTER – 6: 10 Hrs
Principles of Bank Lending: Different kinds of borrowing facilities granted by banks such as Loans, cash credit, overdraft, bills purchased, bills discounted, letters of credit, Types of securities, NPA.

SKILL DEVELOPMENT:

?1 Collect and Paste (xerox) of A/c opening form for SB A/c and Current A/c

- ?á Collect and paste pay in slip for SB A/c and Current A/c.
- ?× Draw specimen of Demand Draft.
- ?X Draw different types of endorsement of cheques.
- ?Û Past specimen of Travellers Cheques / Gift cheques / Credit cheques.
- ?] List customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE:

1. Tannan M.L : *Banking Law and Practice in India.*
2. Bedi H.L & Hardikar V.K : *Practical Banking - Advance*
3. Sheldon H.P : *Practice and Law of Banking.*
4. Bedi. H.L : *Theory and Practice of Banking.*
5. Kothari N. M: *Law and Practice of Banking.*
6. Maheshwari. S.N. : *Banking Law and Practice.*
7. Shekar. K.C : *Banking Theory Law and Practice.*
8. Lan Nigam RM : *Law and Practice of a Banking.*
9. Sundaram KP.M : *Money, Banking and International Trade.* 10.Pannandikar & Mithami': *Banking in India.*
- 11.Radhaswamy & Vasudevan: *Text Book of Banking.*
- 12.Indian Institute of Bankers (Pub) *Commercial Banking Vol-I/Vol-II (part I& II) Vol- III.*
- 13.Varshaney: *Banking Law and Practice.*
- 14.Sheldon: *Theory and Practice of Banking .*
- 15.Devat. S.R: *Law and Practice of Banking.*
- 16.Dr. P.N. Reddy & H. R. Appannaiah : *Banking Theory and Practice.*
17. Ranganathachary, *Banking Law and Practice.*

4.6 : COST ACCOUNTING

OBJECTIVES:

- To familiarise students with the various concepts and element of cost.
- To create cost consciousness among the students.

UNIT – 1: COST ACCOUNTING

15 hours

Introduction – Meaning of Cost, costing and Cost Accounting – Comparison between Financial Accounts and Cost Accounts – Application of Cost Accounting – Designing and installing a Cost Accounting system – Cost concepts and Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of cost sheet – Tenders and Quotations – Problems.

UNIT – 2: MATERIAL COSTING

10 hours

Classification of materials – Material Control – Purchasing procedure – store keeping – techniques of Inventory control – Setting of stock levels – EOQ – Methods of pricing materials issues – LIFO – FIFO – Weighted Average Method – Simple Average Method – Problems.

UNIT – 3: LABOUR COSTING

10 hours

Control of labour cost – Labour Turn Turnover – Causes and effects of labour turnover – Meaning of Time and Motion Study, Merit Rating, Job Analysis, Time keeping and Time booking – Idle time, causes and treatment – Overtime – Methods of Wage Payment, Time rate and Piece Rate –

Incentive Schemes – Halsey Premium Plan – Rowan Bonus Plan – Taylor’s and Merrick’s differential piece rate systems – Problems.

UNIT – 4: OVERHEAD COSTING

15 hours

Definition – Classification of overheads – Procedure for accounting and control of overheads – Allocation of overheads – Apportionment of overheads – Apportionment of Service department costs to production departments – Repeated Distribution method – Simultaneous equation method – absorption of OH’s – Methods of Absorption – Percentage of direct material cost – Direct Labour Cost – Prime Cost, Direct Labour hour rate and Machine Hour Rate – Problems.

UNIT – 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS 10 hours

Need for reconciliation – Reasons for difference in profits – Problems on preparation of Reconciliation statements including Memorandum Reconciliation account.

SKILL DEVELOPMENT:

- ?á Classification of costs incurred in the making of a product.
- ?ý Identification of elements of cost in services sector.
- ?™ Cost estimation for the making of a proposed product.
- ?4 Documentation relating to materials handling in a company.
- ?Î Collection and Classification of overheads in an organization.
- ?j Developing a case for reconciliation.

BOOKS FOR REFERENCE:

1. N.K. Prasad : Cost Accounting
2. Nigam & Sharma : Cost Accounting
3. Khanna Pandey & Ahuja : Practical Costing
4. M.L. Agarwal : Cost Accounting
5. Jain & Narang : Cost Accounting
6. S.P. Iyengar : Cost Accounting
7. S.N. Maheshwari : Cost Accounting
8. Horngren : Cost Accounting : A Managerial Emphasis
9. M. N. Arora : Cost Accounting
10. Dutta : Cost Accounting

4.7 : COMPUTER FUNDAMENTALS

UNIT – 1:

General features of a Computer. Generation of computers. Personal Computer, Workstation, Mainframe Computer and super Computers. Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia. 8 hours

UNIT – 2:

Computer organization. Central processing unit. Computer memory primary memory and secondary memory. Secondary storage devices – magnetic and optical media. Input and output units. OMR, OCR, MICR, scanner, mouse. Modem. 10 hours

UNIT – 3:

Computer hardware and software. Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and Computer security. Elements of MS DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of database and its applications. 12 hours

UNIT – 4:

Word processing and electronic spread sheet. An overview of MS WORD, MS EXCEL and MS POWERPOINT. Elements of BASIC programming. Simple illustrations. 10 hours

UNIT – 5:

Network of computers. Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications. 10 hours

LIST OF PRACTICAL ASSIGNMENTS: (12 Sessions of 2 hours each)

1. System use, keyboard, mouse operations. Word pad and paint brush.
Creating a folder and saving a document – 2 sessions.
2. Simple MS. DOS commands – 1 Session
3. Windows operating system – icons, menus and submenus, my computer – 2 sessions
4. Desktop publishing – preparation of a document using MS.WORD – 2 sessions
5. Installation of a software, virus scanning – illustrations – 1 session.
6. Spreadsheet calculations using MS.EXCEL – 1 session.
7. BASIC programming – illustrations – 1 session.
8. Internet use. Surfing, browsing, search engines, E-mail. – 2 sessions.

BOOKS FOR REFERENCE:

1. Alexis Leon and Mathews Leon (1999): Fundamentals of information technology, Leon Techworld Pub.
2. Jain, S.K. (1999): Information Technology “O” level made simple, BPB Pub.
3. Jain, V.K. (2000): “O” Level Personal Computer Software, BPB Pub.
4. Rajaraman, V. (1999): Fundamentals of Computers, Prentice Hall India.
5. Hamacher, Computer Organisation, Mc Graw.
6. Sinha, Computer Fundamentals, BPB Pub.

5.1 : METHODS AND TECHNIQUES OF COST ACCOUNTING

OBJECTIVES:

The objective of this course exposes the students to the tools and techniques used in Cost Accountancy.

Unit 1 : COSTING METHODS I 20 hours

Introduction - Job Costing – Batch Costing – Contract Costing- Transport Costing

Unit 2: COSTING METHODS II 10 hours

Process Costing – principles – distinction between Process and Job – Preparation of Process Accounts – treatment of normal loss – abnormal loss – abnormal gain – Joint and By-products – apportionment of joint

Unit 3: MARGINAL COSTING 10 hours

Introduction – meaning of marginal cost and marginal costing – marginal costing Vs absorption costing – Cost Volume Profit analysis – contribution – Marginal Contribution Sales Ratio (P/v ratio) – Break even point – margin of safety – break even chart (graphic method) – problems excluding decision making. Costs (Revenue Cost method).

Unit 4 : STANDARD COSTING

10 hours

Introduction – meaning – steps involved in standard costing – analysis of variances – problems on material variances –labor variances.

Unit 5 : BUDGETARY CONTROL

10 hours

Introduction- meaning – objectives of Budgetary control – essentials of budgetary control – essentials of budgetary control – classification of budget-preparation of cash and flexible budgets.

SKILL DEVELOPMENT

- ?., Listing of industries located in your area and methods of costing adopted by them
- ? List out materials used in any two organizations.
- ?` Collection of different formats – material requisition – purchase requisition-bin card-stores ledger
- ?Ë Preparation of wage sheet / pay roll with imaginary figures.
- ?[Preparation of flexible budget with imaginary figures

BOOKS FOR REFERENCE:

1. S P Iyengar, Cost Accounting .
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. M.N. Arora, Cost Accounting.
5. N. Prasad, Costing.
6. Jain & Narang, Cost Accounting

Journals of Institute of Cost Accounts and CIMA publications on Cost and Management Accountancy.

5.2 : INCOME TAXES – I

OBJECTIVES:

The Objective of the syllabus under this paper is to expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.

UNIT – 1:

6 hours

Brief History of Income Tax, Legal Frame work, Cannons of Taxation – Finance Bill – Scheme of Income Tax.

Definition : Assessee, Person, assessment year, previous year, income, Gross Total Income, Total Income, Agricultural Income (including integration of Agricultural Income with Non- Agriculture Income).
6 hours

Revenue and Capital (a) Receipts (b) Expenditure (c) Loss.

2 hours

Residential Status and Incidence of Tax.

8 hours

Exempted Incomes U/S 10 (Restricted to Individual Assesseees) : fully exempted and partly exempted incomes - including problems on House Rent Allowance, Leave Encashment,

Commutation of Pension, Death-cum-Retirement benefits, Gratuity, compensation received on termination of the service. 6 hours

UNIT – 2: 20 hours
Income from Salary – Features of Salary Income – Basic Salary – Allowance, Perquisites section 89(1) – Tax Rebate U/S 88 – Problems.

UNIT – 3: 12 hours
Income from House Property – Introduction – Annual value under different situations – deductions – problems.

SKILL DEVELOPMENT:

?È Form No. 49A (PAN) and 49B.

?[Filling of Income Tax Returns.

?î List of enclosures to be made along with IT returns (with reference to salary & H.P).

?• Preparation of Form 16.

? Computation of Income Tax and the Slab Rates.

?ç Computation of Gratuity.

?4 Chart on perquisites.

?< List of enclosures to be made along with IT returns (with reference to salary and house property incomes)

BOOKS FOR REFERENCE:

1. Dr. Vinod K. Singhania : Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal : Direct Taxes, Konark Publisher (P) ltd.
3. Bhagwathi Prasad : Direct Taxes – Law and Practice, Wishwa Prakashana.
4. Dr. Mehrotra and Dr. Goyal : Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
5. Dinakar Pagare : Law and Practice of Income Tax, Sultan Chand and sons.
6. Gaur & Narang : Income Tax.

5.3 : ENTREPRENEURSHIP DEVELOPMENT PROGRAM

UNIT – 1: 6 hours
Entrepreneurship: What is it? Introduction to Entrepreneur, Entrepreneurship and Enterprise - Importance and relevance of the entrepreneur - Factors influencing entrepreneurship - Pros and Cons of being an entrepreneur - Women entrepreneurs, problems and promotion - Types of Entrepreneurs - Characteristics of a successful entrepreneur - Competency requirement for entrepreneurs - Awareness of self competency and its development

UNIT – 2: 6 hours
Small Scale Industries - Small scale industries/ Tiny industries/Ancillary industries/ Cottage Industries – definition, meaning, product range, capital investment, ownership patterns - Importance and role played by SSI in the development of the Indian economy - Problems faced by SSI's and the steps taken to solve the problems - Policies governing SSI's.

UNIT – 3: 12 hours
Starting a Small Industry -To understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture – location, clearances and permits required, formalities, licensing and registration procedures - Assessment of

the market for the proposed project - To understand the importance of financial, technical and social feasibility of the project.

UNIT – 4: 10 hours

Preparing the Business Plan (BP) - What is a BP? Why is it important? Who prepares it?

- Typical BP format
 - Financial aspects of the BP
 - Marketing aspects of the BP
 - Human Resource aspects of the BP
 - Technical aspects of the BP
 - Social aspects of the BP
- Preparation of BP - Common pitfalls to be avoided in preparation of a BP

UNIT – 5: 10 hours

Implementation of the project - Financial assistance through SFC's , SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's , and Tax Concessions - Assistance for obtaining raw material , machinery, land and building and technical assistance - Industrial estates – role and types

UNIT – 6: 6 hours

Sickness in SSI's - Meaning and definition of a sick industry - Causes of industrial sickness Preventive and remedial measures for sick industries

SKILL DEVELOPMENT:

- ?÷ Preparation of a Project report to start a SSI Unit.
- ?á Preparing a letter to the concerned authority seeking license to the SS Unit, You propose to start.
- ?á Format of a business plan.
- ?r A Report on the survey of SSI units in the region where college is located.
- ?“ Chart showing financial assistance available to SSI along with rates of interest.
- ?! Chart showing tax concessions to SSI both direct and indirect.
- ?Ú Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE:

1. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
2. Udai Pareek and T.V. Rao, Developing Entrepreneurship
3. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
4. Srivastava, A Practical Guide to Industrial Entrepreneurs
5. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
6. Bharusali, Entrepreneur Development
7. Vasanth Desai, Management of Small Scale Industry
8. Vasanth Desai, Problems and Prospects of Small Scale Industry
9. CSV Murthy, Entrepreneurial Development
10. Entrepreneurial Development - Dr.Anil Kumar, S.C.Poornima, Minni K.Abraham, Jayashree K.

5.4 : COMPUTER BUSINESS APPLICATIONS

OBJECTIVES:

To enable the students to understand the application of computers in Business environment with an emphasis on Accounting.

UNIT – 1: 5 Hours
Introduction to Windows – Basics, Windows Accessories, Using File and Program Manager

UNIT – 2: 10 Hours
Introduction to Ms-Word – Editing a Document – Move and Copy text – Formatting text and paragraph – Finding and Replacing text and spelling checking – Using tabs, Tables, and other features, Enhancing document – using mail merge and other features.

UNIT – 3: 10 Hours
Introduction to Worksheet- Getting started with excel – Editing Cells and using commands and functions – Moving And Coping, Inserting and Deleting Rows and Columns – Getting help and formatting a worksheet – Printing the worksheet – Creating Charts – using formulae and functions in excel.

UNIT – 4: 5 Hours
Introduction to Power Point Presentation, & Ms-outlook,

UNIT – 5: 5 Hours
Introduction to Desktop publishing, Computer Viruses, security, and usage of e-mail, Designing Web Page

UNIT – 6: 15 Hours
Accounting Software – Using Tally Software: introduction and installation, Required Hardware, Preparation for installation of tally software, installation. Working in Tally: Opening new company, Safety of Accounts or Password, Characteristics, Making Ledger Accounts, writing voucher, voucher entry, making different types of voucher, correcting sundry debtors an sundry creditors accounts, preparation of Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

SKILL DEVELOPMENT:

Maintain a Record on Practicals.

BOOKS FOR REFERENCE:

1. Craig Stinson “Running Microsoft Windows-98” – Microsoft press.
2. Joshua C. Nossiter. “ Using Excel – 5 for Windows”
3. Vishnu Priya Singh & Meenakshi Singh “ Computerised Financial Accounting”
4. “Working with Word” – Aptech Computer Education
5. “Power Point Presentation” – Aptech Computer Education.
6. Malhotra, Computer Applications in Business

Note:

A minimum of 12+[4 hours of Tally] practical classes should be conducted in second semester and practical internal assessment marks will be given based on the student performance in practical classes by the concerned teacher and no separate practical examination is recommended.

6.1 : BUSINESS LAW

OBJECTIVE:

To familiarise the student with Business Laws and its interpretation.

UNIT – 1: 4 hours

Introduction: Meaning and Scope of business law – Sources of Indian business law.

UNIT – 2: 30 hours

Indian Contract Act of 1872 : Definition – types of contract – essentials – offer, acceptance, consideration capacity of parties – free consent (meaning only) – legality of object and consideration – various modes of discharge of a contract – remedies for breach of contract.

UNIT – 3: 5 hours

Intellectual Property Legislations : Meaning and scope of intellectual properties – Paten Act of 1970 and amendments as per WTO agreements : Background – objects – definition – inventions – patentee – true and first inventor – procedure for grant of process and product patents, WTO rules as to patents (in brief), rights to patentee – infringement – remedies.

UNIT – 4: 4 hours

The Environment Protection Act of 1986 : Back ground – definition of 1) Environment 2) Environmental pollutant 3) Environment pollution 4) Hazardous substances, and 5) Occupier – Power of central Government in relation to protection of environment and prevention of environment pollution.

UNIT – 5: 4 hours

Consumer Protection Act. [COPRA] 1986 : Back ground – definitions of 1) Consumer 2) Consumer Dispute 3) Complaint 4) Deficiency 5) Service – Consumer Protection Council – consumer redressal agencies – District Forum, State Commission and National Commission.

UNIT – 6: 4 hours

Foreign Exchange Management Act 1999 : Objectives, Scope and salient features – offences under the act.

UNIT – 7: 5 hours

Cyber Laws 1999 : Objectives, definitions and salient features, provisions pertaining to piracy and related offences and penalties.

UNIT – 8: 4 hours

Competition Law 2003 : Meaning and scope, salient features, offences and penalties under the Act.

SKILL DEVELOPMENT:

?- Draft a 'rent agreement' incorporating all the essential features of a valid agreement.

?ù Draft an agreement to repay a loan borrowed from a bank on installment basis.

?< Case laws ' involving points of law of contracts'.

?† Draft a complaint against 'unfair trade practice' adopted by a businessman, to the consumer forum.

? List out the latest cases of both High Court and Supreme Court on Environmental issues with both facts and judgements. [Atleast 2 cases]

BOOKS FOR REFERENCE:

1. Tulsian - Business Law, Tata McGraw Hill, New Delhi.
2. Aswathappa. K & Ramachandra – Business Law, HPH, Mumbai.
3. Kapoor N.D. - Business Law, Sultan Chand & Co.
4. Bare Acts.
5. Nabhi - Business Law, Indian Law House, Mumbai.
6. Garg, Sareen, Sharma & Chawla - Business Law.
7. M.C. Kuchhal, Business Law.

6.2 : INCOME TAXES – II**OBJECTIVES:**

The Objective of the syllabus under this paper expose the students to the various provisions relating to Income Tax

UNIT – 1: Profits and Gains from Business and Profession – Problems on business relating to sole trader only and Problems on profession relating to Chartered Accountant, Advocate and Doctor.	15 hours
UNIT – 2: Capital Gains – Theory and Problems including exemptions U/S 54.	10 hours
UNIT – 3: Income From other sources including problems.	5 hours
UNIT – 4: Deduction from Gross Total Income (GTI) – (Provisions relating to individuals only)	8 hours
UNIT – 5: Carry forwards and set off of losses. (Theory only).	2 hours
UNIT – 6: Computation of total Income and Tax liability including tax rebate.	12 hours
UNIT – 7: Income Tax Authorities : A brief discussion on <ol style="list-style-type: none">a. Income Tax Officer and Powers and Functions.b. Central Board of Direct Taxes, Powers and Functions.c. Commissioner of Income Tax, Power and Functions.d. Types of Assessments and Rectifications of Mistakes.e. Recovery of Tax and Refunds.	8 hours

SKILL DEVELOPMENT:

- ?- Chart Capital gains index numbers.
- ?B Table of rates of Tax deducted at source.
- ?s Filing of IT returns of individuals.
- ?ø List of Enclosures for IT returns.

BOOKS FOR REFERENCE:

1. Dr. Vinod K. Singhania : Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal : Direct Taxes, Konark Publisher (P) ltd.
3. Bhagwathi Prasad : Direct Taxes – Law and Practice, Wishwa Prakashana.
4. Dr. Mehrotra and Dr. Goyal : Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
5. Dinakar Pagare : Law and Practice of Income Tax, Sultan Chand and sons.
6. Gaur & Narang : Income Tax.
7. B.B. Lal : Income Tax, Central Sales Tax Law and Practice, Konark Publisher (P) Ltd.
8. V.S. Datey : Indirect Taxes, Taxmann Publication.
9. Dr. Sanjeev Kumar : Systematic Approach to Indirect Taxes, Bharath Law House.

6.3 : MANAGEMENT ACCOUNTING

OBJECTIVES:

To enable the students to understand the importance of the subject through analysis and interpretation of financial statements, calculation of ratios and their analysis. Preparation of funds flow and cash flow statement with a view to prepare management reports for decision making

Unit 1: INTRODUCTION

05 hours

Meaning – objectives – nature and scope of management accounting – role of management accountant – relationship between financial accounting, cost accounting and management accounting.

Unit 2 : FINANCIAL STATEMENT ANALYSIS

10 hours

Meaning – types – meaning and concept of financial analysis – types of financial analysis – methods of financial analysis – problems on comparative statements – common size statements – trend analysis .

Unit 3: RATIO ANALYSIS

15 hours

Meaning – importance – utility of ratios – classification of ratios – calculation and interpretation of ratios – preparation of income statement and Balance Sheet with ratios.

Unit 4: FUNDS FLOW AND CASH FLOW ANALYSIS

23 hours

Meaning – concept of fund and funds flow statement – uses and significance of funds flow statement – procedure for preparing FFS – Schedule of changes in working capital – statement of sources and application of funds - Cash Flow analysis – meaning and concept – comparison between Funds Flow and Cash Flow statements – uses and significance of CFS-preparation of Cash Flow Statement as per Accounting Standards.

Unit 5: MANAGEMENT REPORTING

07 hours

Methods of reporting – requirements of a good report – kinds of reports – principles of good reporting system – drafting of reports under different situations

SKILL DEVELOPMENT:

?E Collection of financial statements of any one organization for two years.

?, Calculation of ratios based on the above financial statement : Profitability ratios – Gross Profit ratio, Net Profit ratio, ROCE, Current Ratio, Liquid Ratio.

?E Preparation of Funds flow / cash flow statements with imaginary figure as per Accounting Standards.

?_ Draft an imaginary Management Report.

BOOKS FOR REFERENCE:

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. Made Gowda, Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. R.S.N. Pillai and Bagavathi, Management Accounting
7. Sharma and Gupta, Management Accounting
8. J. Batty, Management Accounting
9. Foster, Financial Statement Analysis, Pearson.
10. PN Reddy & Appanaiah, Essentials of Management Accounting.

6.4 : SERVICES MANAGEMENT

OBJECTIVE:

To familiarise the students with different services and prepare them with requisite skills to manage.

UNIT – 1:

10 hours

Introduction: Understanding Services Phenomenon; Growth of Service Sector; Role of services in Economy; The concept of Services; Characteristics of services; Classification of services; Marketing Mix in Service Marketing; **Knowledge of the customer:** Customer Involvement in Service Processes; Customer behaviour in Service Settings; Targeting Customers, Managing Relationships and building Loyalty

UNIT – 2:

6 hours

Planning & Managing Service Delivery – Creating delivery systems in place, Cyberspace and time; Enhancing Value by Improving Quality and Productivity; Balancing Demand & Capacity; Managing customers reservations & waiting lists.

UNIT – 3:

12 hours

Tourism and Travel Services:

Introduction to Tourism Marketing: Concept & Nature of Tourism; Significance & Impact of Tourism; Evolution of Tourism; Tourism Market Segmentation; Tourism marketing Mix

Introduction to Hotel Industry: Hotels; Evolution of Hotel Industry; Development of Hotels; Facilities; The guest Cycle; Grades of hotels; Marketing Mix of Hospitality Industry

Introduction to Travel Services:

- (i) Role of Travel Agencies & Travel Organisation
- (ii) Tour Operations
- (iii) Airline Service Marketing
- (iv) Road & Rail services
- (v) Travel by Sea

UNIT – 4:

12 hours

Marketing of banking & insurance services:-

Marketing of Insurance Services

- (i) Life Insurance – Whole life, Term Insurance, Endowment insurance, survivorship insurance
- (ii) General insurance – Marine insurance, Fire insurance, Building insurance, Motor insurances
- (iii) Miscellaneous Insurance – Personal accident, Burglary & theft, Workmen's compensation, Fidelity guarantee, Mediclaim, Policy for jewellery, Videsh yatra policy

Marketing of Banking Services: A brief insight into Indian Banking scenario; Issues in Banking; Bank Marketing, Market research in Indian Banks, Areas of future growth in banking, e- banking;

UNIT – 5:

20 hours

Marketing of FINANCIAL services

Housing & Financial intermediaries – Operational capital formation; Housing finance: issues, supply constraints, policy perspectives; links and private sector initiatives (Indian context);

Mutual funds marketing – Introduction; Concept; scope of MF; Market evolution; Impact of growth on the economy; Types of mutual fund services, elements of MF marketing, Product design pricing, promotion and distribution of products, customer service; marketing & market research, strategic marketing plan.

SKILL DEVELOPMENT:

?[Prepare a chart on conditions to be complied for Star Hotel Status.

?î Procure any two insurance policies (xerox) and paste them in the record.

?• Visit and Travel and Tour agencies and prepare organization chart.

? Interact with tourist operators and identify the areas of tourism management.

?ç Prepare a chart showing customer service rendered by atleast two MF. (preferably a comparative chart)

?< Procedures of Railway ticket booking with specimen of reservation / cancellation slip.

?° Procedure for Air ticket booking both domestic and International.

BOOKS FOR REFERENCE:

1. Shanker, Ravi; Services Marketing – the Indian Perspective; Excel Books, New Delhi; First Edition; 2002
2. Lovelock, Christopher; Services Marketing – People, Technology, Strategy; Pearson Education Asia, Delhi; First Indian Reprint, 2001.
3. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition 2001.
4. Venugopal, Vasanthi & Raghu V.N; Services Marketing; Himalaya Publishing house; Mumbai; First Edition 2001.
5. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
6. Sharma, Services Management.

ACCOUNTING GROUP

PAPER 1: ADVANCED FINANCIAL ACCOUNTANCY

OBJECTIVES:

The objective of this course is to expose students to advanced accounting issues and practices. The main focus is on formatted accounting practices.

Unit 1: HOLDING COMPANY

18 hours

Introduction –types of control – legal definition-preparation of accounts – financial year of Holding company and its subsidiary – Rules for preparation of Consolidated Balance Sheet – investments in the subsidiary company – minority interest – cost of control – goodwill or Capital Reserve –

Capital Profits – Revenue Profits – Inter company transactions – goods sold on credit – Debtors – Bills Receivable – Creditors – Bills Payable – contingent liabilities – inter company unrealized profits - Revaluation of Assets and Liabilities - dividends – Bonus issue.

Unit 2 : ACCOUNTING OF BANKING COMPANIES 20 hours

Meaning of Banking Company – Accounting treatment of Rebate on bills discounted – ascertainment of non-performing assets – Classifications of advances - Applications of provision of Banking Regulation Act of 1949 as amended from time to time – Preparation of Final Accounts as per the existing Banking Regulation Act.

Unit 3: FINAL ACCOUNTS OF LIFE INSURANCE 10 hours

Meaning – Insurance terms – Premium – Consideration for annuities granted – Policies becoming claims – reinsurance – surrender value and paid-up value – bonus - cash bonus – bonus in reduction of premium - reversionary bonus - valuation – Preparation of Revenue Account applicable for Life Insurance Business – Balance of a Life Insurance Company according to Form ‘A’ in the First Schedule.

Unit 4 : FINAL ACCOUNTS OF GENERAL INSURANCE 10 hours

Meaning – General Insurance Revenue Account for Fire and Marine – Treatment of reserve or provision to be carried forward - Preparation of Profit and Loss Account in Form B – Preparation of Profit and Loss Appropriation Account in Form C – Preparation of Balance Sheet.

SKILL DEVELOPMENT:

- Collecting the final accounts of a Public Limited Company and Commenting on the liquidity and profitability.
- Apply important ratios to analyze the Company’s Balance Sheet.
- Listing any 10 Life Insurance Policies and collecting information relating to bonus rates and guaranteed additions.
- Collection of Final Accounts of General Insurance Company. Calculating and commenting on the profitability and liquidity.
- Collection of Final Accounts of Life Insurance Company. Calculating and commenting on the profitability and liquidity.

BOOKS FOR REFERENCE:

1. RL Gupta and Radhaswamy, Advanced Accountancy, Sultan Chand & Sons.
2. SP Jain and Narang, Advanced Accounts, Kalyani Publishers.
3. SP Iyengar, Advanced Accounting, Sultan Chand & Sons.
4. Chakraborty, Advanced Accountancy, Navbharathi Publishing Company, Calcutta.
5. Mukerjee & Hanif, Modern Accountancy, TMH.

PAPER 2: AUDITING - I

OBJECTIVES:

This course aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING 10 hours

Introduction – meaning- definition – difference between accountancy and auditing – types of audit - – advantages of auditing – preparation before commencement of new audit -

Unit 2: INTERNAL CHECK

15 hours

Meaning and objects of internal check – internal control-meaning definition-fundamental principles-internal check as regards wages, cash sales, cash purchases - internal check in a departmental stores-internal audit – meaning-importance – advantage and disadvantages.

Unit 3: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES 15 hours

Meaning and objectives – position of an auditor as regards to the valuation of assets – verification and valuation of different items – assets –fixed assets -goodwill – stock in trade – investments – liabilities – capital – debentures – bills payable sundry creditors – contingent liabilities -

Unit 4: AUDIT OF DIFFERENT ORGANIZATIONS

10 hours

Drafting of audit program or trading and non-trading organization in a tabular form . Preparation of clean and qualified audit report with special reference to manufacturing and other Companies
Audit Report 1975

Unit 5: AUDITING UNDER COMPUTERIZED ENVIRONMENT

10 hours

Uses and constraints of computerized audit – tallying – voucher entry- account information.

SKILL DEVELOPMENT

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Prepare a qualified or clean audit report for a given situation.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. TR Sharma, Auditing.
2. BN Tandon, Practical Auditing.
3. MS Ramaswamy, Principles and Practice of Auditing.
4. Dinakar Pagare, Practice of Auditing.
5. Kamal Gupta, Practical Auditing.
6. P N Reddy & Appannaiah, Auditing.
7. Shekar, Auditing.
8. Pradeep Kumar, Auditing.
9. Jagadeesh Prakash, Auditing.

PAPTER 3: AUDITING II

OBJECTIVES:

To enable the students to understand the procedures of auditing of different types of concerns.

UNIT 1 : VOUCHING

20 hours

Meaning -definition –importance – routine checking and vouching – voucher-types of vouchers – vouching of receipts-cash sales- receipt from debtors – bills receivable-proceeds of the sale of investments and buildings- payments-vouching of cash purchases –payment of creditors, bills payable-purchase of fixed assets-vouching of deferred revenue expenditure-preliminary expenses – cost of issue of shares and debentures –underwriting commission-

UNIT 2 : DEPRECIATION : 10 hours
General considerations – methods of depreciation – their suitability for various assets – legal position as regards depreciation – change of depreciation – auditor’s duty as regard depreciation.

UNIT 3 : AUDIT OF LIMITED COMPANIES AND OTHERS 15 hours
Company Auditor – appointment, powers, duties and liabilities – divisible profits and dividend – Special Audit of Banking Companies- Audit of Education Institutions – Audit of Insurance Companies.

UNIT 4: AUDITING STANDARDS 07 hours
Mandatory Auditing Standards issued by the Institute of Chartered Accountants of India - :Professional ethics of an Auditor.

UNIT 5 : RECENT TRENDS IN AUDITING : 08 hours
Nature and significance of cost audit –tax audit-management audit

SKILL DEVELOPMENT:

- ? Draw Specimen of Vouchers – at least three Vouchers for different purposes.
- ?¢ Case law on depreciation – facts and judgements.
- ?4 Record the procedure and practices followed which auditing (a) Educational institutions (b) Insurance Companies or Banking Companies.
- ?° List out Mandatory Standards issued by ICAI.

BOOKS FOR REFERENCE:

1. TR Sharma, Auditing.
2. BN Tandon, Practical Auditing.
3. MS Ramaswamy, Principles and Practice of Auditing.
4. Dinakar Pagare, Practice of Auditing.
5. Kamal Gupta, Practical Auditing.
6. P N Reddy & Appannaiah, Auditing.
7. Shekar, Auditing.
8. Pradeep Kumar, Auditing.
9. Jagadeesh Prakash, Auditing.

PAPER 4 :ACCOUNTING AND INFORMATON SYSTEMS

OBJECTIVES:

The objective of the course is to familiarize the students with the innovations in information technology and to acquaint the students with the use o computers in the area o financial, cost and management accounting

Unit 1: Financial Accounting System and software packages 15 hours
Financial transactions, Books of original entry – ledger, trial balance, financial statements-profit and loss accounts and balance sheet-practical knowledge on Wings Accounting and Wings trade (softwares).

Unit 2: Cost Accounting System and software packages 15 hours
Elements of Cost-classification-cost sheet-cost accounting methods and techniques-use of software packages of various types to obtain cost accounting output-analysis of cost-cost center wise-cost element wise-allocation of overheads -preparation of cost sheet.

Unit 3: Management Accounting and software packages 15 hours
Concepts-organization-accounting techniques -use of software packages to obtain different management accounting outputs – fund flow statement-ratio analysis-budget and budget variances-projected financial statements-marginal costing

Unit 4: Management Information System 10 hours
Accounting techniques and reports

Unit 5: Information System Audit 5 hours
Basic idea of information audit-difference with the traditional concepts of audit –conduct and application of Information System Audit in internet environment.

SKILL DEVELOPMENT

Record all Practicals conducted in the Class.

BOOKS FOR REFERENCE:

1. Edwards, Ward, and Bytheway ; The essence of Information Systems
2. Garg and Srinivasan : Work Book on systems analysis and design.
3. Yeats : System analysis and design
4. Goyal : Management Information Systems
5. Timothy J.O’Leary : Microsoft Office 2000
6. Accounting Softwares: Tally, Miracle, Tata Exe etc

FINANCE GROUP PAPER 1 :ADVANCED FINANCIAL MANAGEMENT

OBJECTIVE:

To familiarise the students with various factors considered while managing the Finance of a Concern.

UNIT 1

Investment decisions and Risk Analysis:

1. Cash flow – concept and measurements
2. Risk Analysis- probability approach, expected values – standard deviation – sensitivity Analysis – decision tree Analysis (Problems)
3. Capital Budgeting under Inflation.

15 hours

UNIT 2

Capital Structure theories – MM’s theory- Traditional view – Net income approach – Net operating income approach- Arbitrary process (problems)

10 hours

UNIT 3

Dividend Policy: Walter’s Model- Gordon’s Model- MM’s Hypothesis (problems)

10 hours

UNIT 4

Planning and forecasting of working capital: funds statement- Analysis of working capital position-working capital management, problems on determining the working capital – including operating

cycle method- cash budget- cash management techniques.- accounts receivable management- meaning, factors (problems) – Inventory management – techniques JIT Analysis- problems on EOQ levels. 20 hours

UNIT 5

International Financial Management- meaning – importance – Merits- Demerits. 5 hours

SKILL DEVELOPMENT:

- ?ò Preparation of a small project report of a small business concern covering all components- (Finance, Marketing, Production, Human Resources, General administration) (Any one component can be selected as a title of the report)
- ?´ Designing a capital structure for a Trading concern
- ?8 Preparing a blue print on working capital of a small concern.
- ?È Prepare a chart on Modes of cash budget.
- ?[List out different modes of Dividend Policy.
- ?î List out the Companies which have declared dividends recently along with the rate of dividend.

BOOKS FOR REFERENCE:

1. S N Maheshwari, Financial Management Principles and Practice.
2. Khan and Jain, Financial Management.
3. Sharma and Sashi Gupta, Financial Management.
4. I M Pandey, Financial Management.
5. James c Vanhorne, Financial Management.
6. Prasanna Chandra, Financial Management.
7. PV Kulkarni & BG Sathya Prasad, Financial Management.
8. I.M. Pandey, Financial Management.
9. Gitman, Principles of Managerial Finance, Pearson.

PAPER 2 : FINANCIAL MARKETS

OBJECTIVES:

To familiarise the students with different types of financial markets available in India.

UNIT 1

10 hours

Primary market- meaning – features, players of primary market – instruments in primary market (names) – procedure for issuing equity and debentures SEBI guidelines towards the issue of equity shares and debentures. Merits and de merits of primary markets.

UNIT 2

10 hours

Secondary market – meaning – structure – functions – trading and settlement system of stock exchange transactions. Players in the stock market – merits and de merits of stock markets – reforms in stock market – OTCEI and NSE – origin – function – merits – de merits.

UNIT 3

20 hours

Capital markets – meaning – structure – types of capital market institutions – development banks. Non Banking Financial Companies – Credit Rating Agencies (organisation structure – functions).

UNIT 4

10 hours

Money market – structure – functions – instruments of money market - Treasury bills (meaning and features – C Ps & C Ds – DFHI & RBI (structure – functions)

UNIT 5 5 hours
Forex Market – concept – meaning – importance – merits of forex market)

UNIT 6 5 hours
Euro market – Euro Currency – meaning – features – functions of these markets.

SKILL DEVELOPMENT:

- ?o Chart showing structure of Financial Markets.
- ? Chart showing instruments of Financial Markets.
- ?’ Chart showing classification of Mutual Funds.
- ?\$ Formats of instruments atleast 3 instruments
- ?μ Chart on Insurance Sector.
- ?H Chart of ratings given by different Rating Agencies.

BOOKS FOR REFERENCE:

1. Meir Kohn: Financial Institutions and Markets, Tata McGrah Hill
2. L M Bhole: Financial Institutions and Markets, Tata Mcgrah Hill
3. Vasantha desai : The Indian Financial System, HPH
4. M Y Khan: Indian Financial System, TMH.
5. Sharma & Shashi Gupta : Financial Management
6. Fabozzi, Foundations of Financial Markets and Institutions, Pearson.

PAPER 3 : CORPORATE FINANCIAL POLICY

OBJECTIVES:

To expose the student towards corporate financial policies.

UNIT 1 12 hours
Financial Policy: Meaning, scope, interface of corporate financial policy and other managerial function, financial policy and decision making- corporate financing policy – debt financing – internal financing- factors to be considered in formulating financing policy - taxation- capital market consideration – financial risk – competitive advantage.

UNIT 2 20 hours
Corporate financial goals: Mission- Vision – profit criteria’s- wealth criteria’s – economic and business environment – sustained growth approach – fund availability – maximizing growth - growth potential of a single product company, growth potential of multi product company.

UNIT 3 20 hours
Mergers and Acquisitions – meaning- reasons – types of combinations - forms of merger – motives and benefits of merger – financial evaluation of a merger - merger negotiations- meaning and significance of P/E ratio- leveraged buyouts – regulation of mergers and takeovers in India.

UNIT 4 8 hours
Corporate valuation – meaning of business valuation – valuing bases for takeover – mergers – amalgamation – valuation of brand and intangible assets.

SKILL DEVELOPMENT:

- ?→ Formulation of financing policy

- ?á Case analysis of some live merger reported in business magazines
- ?ø Analysing business growth of some companies on the basis of reported financial results of some companies.
- ? Identify Mission, vision statement of Company.
- ?« Case study of growth pattern of a single product / multi product.

BOOKS FOR REFERENCE :

1. I M Pandey, Financial management.
2. R P Rustagi, Financial management.
3. J C Vanhorne, Financial management.
4. Dr. Besent Ray, Corporate management.
5. Weston and Brigham, Essentials of Managerial Finance.
6. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
7. E Gardon & K Natarajan: Financial Markets & Services

PAPER 4 : FINANCIAL SERVICES

OBJECTIVE:

To familiarise the students with traditional and modern financial services.

Unit 1 15 hours
 Financial services / Products / Instruments – meaning - features – importance – contribution of financial services in promoting industry – service sector (Macro level discussion) – Financial instruments – types – instruments recent innovation.

Unit 2 10 hours
 Merchant banking – meaning, origin and growth of merchant banking in India. Scope of merchant banking services – merchant bankers and management of public issues – merchant banking practices in India. Weakness in the functioning of merchant bankers in India.

Unit 3 10 hours
 Mutual funds: Concept of mutual funds. Growth of mutual funds in India. Mutual fund schemes – money market mutual funds – private sector mutual funds – evaluation of the performance of mutual funds – functioning of mutual funds in India.

UNIT 4 15hours Lease
 financing: Why leasing – types of leasing – fixation of lease rentals – factors influencing lease Vs buy decision – accounting treatment for leasing – performance of leasing industry in India. Difference between leasing and hire purchasing. Concept of hire-purchasing – Raj Committee recommendations – RBI guidelines for hire-purchase – problems of hire-purchasing companies in India.

UNIT 5 10hours
 Factoring: Concept of factoring – why factoring – types of factoring – factoring mechanism.

Retail banking services – personal loan – home loans – car loans – consumer loans – educational loans- (meaning – features – types – merits and de merits of each services are covered)

UNIT 6 5hours Venture
 Capital: Concept of venture capital fund – characteristics – growth of venture capital funds in India

– difference between venture capital financing and conventional financing – venture capital schemes – legal aspects – working of venture capital funding agencies in India.

SKILL DEVELOPMENT:

- ?» Collection of Share certificate / debenture certificate.
- ?K Chart showing modus operandi of leasing – hire purchase procedures.
- ?P Chart showing modus operandi of factoring services.
- ?o Chart showing Financial Services.
- ? Collect any specimen of new Financial Instruments and record the same.
- ?’ Drawing a comparative statement in respect of Car loans, Home loans, Education loans etc. offered by atleast any 3 Financial institutions.

BOOKS FOR REFERENCE:

1. Avadhani : Financial Services and Markets, Himalaya Publishing House.
2. Bhole : Indian Financial System, Himalaya Publishing House.
3. Prasanna Chandra : Security Analysis and Portfolio Management, Tata McGraw Hill.
4. Dr. B.G. Satyaprasad: Industrial Finance, Himalaya Publishing House.
5. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
6. L M Bhole: Financial Institutions and Markets, Tata McGraw Hill
7. Vasantha desai : The Indian Financial System, HPH
8. M Y Khan: Indian Financial System, TMH
9. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
10. E Gardon & K Natarajan: Financial Markets & Services
11. Sharma & Gupta, Financial Services.

MARKETING GROUP

1. CONSUMER BEHAVIOUR

CHAPTER I: INTRODUCTION

8 hrs

Introduction to Consumer Behaviour - A managerial & consumer perspective; why study consumer behaviour? ; Applications of consumer behaviour knowledge; current trends in Consumer Behaviour; Market segmentation & consumer behaviour.

CHAPTER II: INDIVIDUAL DETERMINANTS OF CONSUMER BEHAVIOUR

14 hrs

Consumer needs & motivation; personality and self concept; consumer perception; learning & memory; nature of consumer attitudes; consumer attitude formation and change.

CHAPTER III: ENVIRONMENTAL DETERMINANTS OF CONSUMER BEHAVIOUR

12 hrs

Family influences; the influence of culture; subculture & cross cultural influences; group dynamics and consumer reference groups; social class & consumer behaviour.

CHAPTER IV: CONSUMER'S DECISION MAKING PROCESS

8 hrs

Problem recognition; Search & Evaluation; Purchase processes; Post-purchase behaviour; personal influence & opinion leadership process; diffusion of innovations; Models of Consumer Behaviour; Researching Consumer behaviour; consumer research process.

CHAPTER V: CONSUMER SATISFACTION & CONSUMERISM

8 hrs

Concept of Consumer Satisfaction; Working towards enhancing consumer satisfaction; sources of consumer dissatisfaction; dealing with consumer complaint. Concept of consumerism; consumerism in India; the Indian consumer; Reasons for growth of consumerism in India; Consumer protection Act 1986.

SKILL DEVELOPMENT:

- ? Conduct an informal interview of a local retail store owner and determine what demographic and socio economic segments the store appears to satisfy. How did the owner select this segment or segments?
- ?> Conduct formal interview to the managers of three retailclothing stores. Determine the degree to which they believe consumer's personality and self-image are important to the marketing activities of the stores.
- ?ð Visit three local restaurants and assess how each attracts clientele in different stages of the family life cycle.
- ? You are the owner of two furniture stores, one catering to upper-middle class consumers and the other to lower-middle class consumers. How do social class differences influence each store's
 - a) Product lines & styles
 - b) Advertising media selection
 - c) The copy & communication styles used in the advertisements
 - d) Payment policies
- ? For each of the following Products & services, indicate who you would go to for information and advice;
 - a) The latest fashion in clothes
 - b) Banking
 - c) Air travel
 - d) Vacation destinations
 - e) A personal computerFor each situation; indicate the person's relationship to you and your reasons for selecting him/her as the source of information and advice.

REFERENCE BOOKS:

1. Leon. G. Schiffman & Leslve Lazer kanuk; Consumer behaviour; 6th Edition; PHI, New Delhi, 2000.
2. David. L. Loudon & Albert J. Bitta; Consumer Behaviour; 4th Edition, Mcgraw Hill, Inc; New Delshi, 1993.
3. Assael Henry; Consumer behaviour and marketing action; Asian Books(P) Ltd, Thomson learning, 6th Edition; 2001.
4. Suja.R.Nair, Consumer behaviour in Indian perspective, First Edition, Himalaya Publishing House, Mumbai, 2003.
5. Jay D. Lindquist & M. Joseph Sirgy, Shopper, Buyer and Consumer Behaviour, 2003.
6. Blackwell; Consumer Behaviour, 2nd Edition.
7. Sontakki; Consumer Behaviour.
8. Schiffman; Consumer Behaviour.

2. MARKETING RESEARCH

CHAPTER I: INTRODUCTION & BASIC CONCEPTS 12 hrs
Introduction to marketing research - nature, characteristics, scope, uses & limitations; Interaction between management and marketing research; Marketing information system and decision support system in marketing research; Assessing information needs; scientific method & research process; steps in research process; types of research.

CHAPTER II: SOURCE & COLLECTION OF DATA 14 hrs
Sources of Secondary data; its advantages and disadvantages; methods of collection of primary data; construction of questionnaire and interview schedule; scaling and measurement; Sampling designs and sample size- decisions; organizing data collection & field force.

CHAPTER III: PROCESSING & ANALYSIS OF DATA 12 hrs
Editing, Coding & tabulation of data; techniques of data analysis; testing of hypothesis; tests of significance; analysis of associations; analysis of experiments; interpretation of data.

CHAPTER IV: REPORT WRITING & PRESENTATION 4 hrs
Role & types of report; content of report; principles of report preparation; Presentation & Communication.

CHAPTER V: TRADITIONAL & EMERGING APPLICATIONS OF MARKETING RESEARCH 8 hrs
Product research; price research; distribution research; advertising research; market & sales research; customer database and relationship marketing; Brand equity & customer satisfaction measurement; Internet marketing Research.

SKILL DEVELOPMENT:

- ? Identify & describe the activities of five marketing research companies in India?
- ?A Form class Teams & based on the sources of secondary data available, prepare a short report on 'Investment options for consumers in Indian financial services sector.'
- ? Construct a questionnaire to measure student's attitudes towards the purchase of two wheelers/ ready-made garments/ educational service/ television programmes. Administer the questionnaire you have developed on selected students (sample size of 25 students) in your college. Discuss any response related problems you encountered.
- ?TM Based on the above survey, carryout the analysis & interpretation of data. Short report should be submitted for evaluation of acquired skills of marketing research.
- ?B Participate in any online/ Internet marketing research programme and identify the key characteristics of the programme.

REFERENCE BOOKS:

1. Boyd, Westfall & starch, Marketing Research, text & cases, seventh edition, AITBS, New Delhi, 1996.
2. G.c.Beri, Marketing Research, Tata Mcgraw Hill publishing company, 2nd edition, New Delhi 1997.
3. Prof.M.N.Mishra, Modern Marketing Research; First Edition, Himalaya Publishing House, Mumbai, 1998.
4. Suja.R.Nair, Marketing Research, First Edition, Himalaya Publishing House, Mumbai, 2003.
5. Amanathulla, Marketing Research.
6. Malhotra, Marketing Research.

3. ADVERTISING MANAGEMENT

CHAPTER I: INTRODUCTION & BASIC CONCEPTS 10 hrs
History of advertising; Advertising purpose and functions; Economic, social & ethical aspects of advertising; Advertising & the marketing mix, Advertising as a communication process; types of advertising; Major Institutions of advertising management.

CHAPTER II: ADVERTISING AND CAMPAIGN PLANNING 8 hrs
Marketing strategy & situation analysis; Advertising plan; Advertising objectives; DAGMAR approach; advertising strategy; Advertising campaign-planning process.

CHAPTER III: CREATIVE STRATEGY & ADVERTISING BUDGET 12 hrs
Creative approaches; the art of copywriting; Advertising copy testing; creativity in communication, motivational approaches & appeals, advertising budget process; methods of determining advertising appropriations.

CHAPTER IV: ADVERTISING MEDIA STRATEGY 10 hrs
Role of media; types of media; their advantages and disadvantages; media research & advertising decisions; media planning, selection & scheduling strategies.

CHAPTER V: ADVERTISING EFFECTIVENESS & ORGANISING ADVERTISING FUNCTIONS. 10 hrs
Methods of measuring advertising effectiveness; advertising research; structure & functions of an advertising agency; selection & co-ordination of advertising agency; Advertising regulations; Internet advertising.

SKILL DEVELOPMENT:

- ?% Sketch the competitive position for the development of an advertising plan for Sahara Airlines & Tata Telephones.
- ?D Define the advertising objectives on DAGMAR Approach for any product of your choice.
- ?o By selecting an appropriate theme & appeal, create & enact an advertisement for a range of any established products. For this purpose, the class should be divided into groups and formal presentations have to be evaluated.
- ?\ Select two print & electronic media for the purpose of understanding the functions of advertising media. Comparative analysis of the same should be done & short reports must be prepared.
- ?È Get into the exciting world of internet / Net advertising and identify the message content of 10 products / Services of your choice.

REFERENCE BOOKS:

1. Rajeev Batra, John.G.Myers.T.David.A.Aaker; Advertising Management; 5th Edition, PHI Edition, New Delhi, 1998.
2. Jefkins & Yadin; Advertising, 4th Edition; Pearson Education, New Delhi, 2000.
3. Manendra Mohan; Advertising Management - Concepts & Cases; Tata McGraw Hill Publishing company Ltd, New Delhi 2001.
4. S.A.Chunnawalia & K.c.Sethia Foundations of Advertising - Theory & Practice, Himalaya Publishing House, 2002.
7. Sonatakki, Advertising.
8. Wells, Advertising.

4. SALES & DISTRIBUTION MANAGEMENT

- CHAPTER I: INTRODUCTION & BASIC CONCEPTS 10 hrs
The nature of personal selling; Personal Selling in marketing mix; The dimensions of sales management; Sales Management environment; Sales forecasting & Sales management planning.
- CHAPTER II: ORGANISING & EXECUTING THE SALES EFFORT 8 hrs
The nature of sales management positions; the sales organization; sales department relations; distributive network relations; the selling process; sales personality.
- CHAPTER III: SALES FORCE MANAGEMENT 12 hrs
Recruitment & selection of sales personnel; Training, motivating, compensating & controlling sales personnel; controlling the sales effort - sales budget, sales quotas, sales territories, sales control & cost analysis.
- CHAPTER IV: OVERVIEW OF DISTRIBUTION MANAGEMENT 8 hrs
Basic concepts of distribution systems; Different modes of transport in India; Functional areas of logistics management; Distribution costs; Supply chain management.
- CHAPTER V: MANAGING MARKETING INTERMEDIARIES 12 hrs
Role & functions of marketing intermediaries; selection of marketing channels; motivation of marketing intermediaries; distribution analysis, Channel management & control.

SKILL DEVELOPMENT:

- ? Prepare a profile of consumer durable products sold at the authorized dealer of your choice. Present the highlights of the profile in class.
- ?u Look into newspaper's advertising under 'sales positions' section. Make a list of adjectives used to describe the type of person desired for a sales position. What personality traits seem to be important in a person looking for a sales career? Match with your personality traits & give reasons for the outcome.
- ? Interview five selected sales managers about recruitment, selection & compensation policies of his/her organization for sales personnel. Evaluate these findings & discuss the report in your class.
- ?i Prepare a report on the nature of industries directly dependent on different modes of transport systems in India.
- ? Identify three fast moving consumer goods marketing intermediaries & analyse their functions & responsibilities in your class. Analyse the changes in retail Chain Management.

REFERENCE BOOKS:

1. R.Still, W.Cundiff, A.P.Govoni, Sales Management Decisions Strategies and Cases, 5th Edition, P.H.I, New Delhi, 2001.
2. M.Johnson, L.Kurtz, E.Scheuing, Sales Management Concepts, Practices & Cases, 2nd Edition, Mcgraw Hill International, New York, 1994.
3. W.Stern, EI-Ansary, T.Coughlan, Marketing Channels, 5th Edition, P.H.I, New Delhi, 2001.
4. Gupta.S.L, Sales & Distribution Management, 1st Edition, Excell Books, New Delhi, 1999.
5. Coughlem, Marketing Channels.

HUMAN RESOURCE SPECILISATION

1. INDUSTRIAL RELATIONS

UNIT – 1:

Introduction to Industrial Relation

8Hrs

Definition, Concepts, Nature of industrial relations, Importance of industrial relations, Approaches to industrial relations, The Labour movement, Characteristics of Indian Labour.

UNIT – 2:

Indian Trade Union Movement

8Hrs

Nature of Trade Unions, Trade Union movement in 3 stages (First world war period – socialist Period - Communist Stage – Post Independence Stage), Reasons for employees to join trade Unions, Problems of Trade Unions & Remedies, Trade Union Act 1926, Trends in Trade Union Movement in India.

UNIT – 3:

Collective Bargaining

8Hrs

Meaning of collective bargaining, Concept of collective bargaining, Prerequisites for collective bargaining, the collective bargaining process, Principles of Collective Bargaining, Essential conditions for the success of collective bargaining, Collective Bargaining in India.

UNIT – 4:

Grievance handling and Industrial Discipline to Maintain Effective Industrial Relations

10Hrs

Meaning & Concept of grievance – causes of grievance – effects of grievance - Grievance redressal procedure, purview of Industrial Employment (standing orders) Act 1946, Discipline, Meaning & Importance, Disciplinary Procedure and domestic enquiry.

UNIT – 5:

Industrial Disputes

6Hrs

Meaning of Industrial Conflicts, Causes of Industrial Conflicts, Types of Industrial Conflicts - Strikes & Lockouts, Machinery for resolving Industrial Disputes under the Industrial Disputes Act 1947, , Arbitration, Adjudication, Prevention of Industrial Conflicts, Approaches to Conflict, Settlement of Conflicts.

UNIT – 6:

Collaboration and Workers Participation in Management

6Hrs

Bases of collaboration, Interventions for collaboration. Meaning of workers participation in management, concepts and objectives of workers participation in management, growth and development of workers participation in management, types of workers participation in management

UNIT – 7:

Quality Circle

4Hrs

Quality circles, history of QC, Organization structure of QC, Benefits of QC, Problems of QC.

BOOKS FOR REFERENCE:

1. Davar, Personnel management and Industrial Relations.
2. C.B. Memoria, Dynamics of industrial Relations in India.
3. Johnson, Introduction to Industrial Relations.

4. Sharma A.M, Industrial Relations.
5. Biswanth Ghosh, Personnel management and Industrial Relations.
6. Bhagdiwall- Flippo, Personnel management and Industrial Relations.

2. LABOUR WELFARE AND SOCIAL SECURITY

UNIT – 1:

Introduction

10Hrs

The Labour Movement, Merits & Demerits of Welfare Measures, Concepts of Labour Welfare & Social Security, Types of Welfare Activities, Statutory and non-statutory, Growth of Labour Welfare & Social Security in India.

UNIT – 2:

Occupational Hazards, Industrial Health & Safety

12Hrs

Types of accidents, Causes accidents, Prevention of accidents

Safety - Need for safety, measures to ensure safety in organisations. The supervisors role in safety
Health-Physical health & Mental health, Problems and remedies, noise control, job stress, communicable diseases, Alcoholism and drug abuse, Violence in the work place, Use of computers to monitor health and safety.

UNIT – 3:

Living Conditions

8Hrs

Living conditions of employees and his family, continual education, housing for employees, recreation for employees.

UNIT – 4:

Counselling

10Hrs

Meaning of counselling, Manager as a counsellor, Conditions for counselling, Counsellor's relation with the Counselee, Methods, Techniques and skills for counselling, Principles of personal counselling, Cordial relationship, mutual recognition, respect and congruence, empathy, Types of problems for counselling

UNIT – 5:

Post – retirement benefits

5Hrs

Provident Fund- purpose of provident fund, employer obligation to employee towards provident fund, Public Provident fund, Gratuity, statutory provisions regarding gratuity, Pension.

UNIT – 6:

Quality of Work life

5Hrs

Introduction, Meaning, Specific issues in QWL, QWL and productivity, Barriers in QWL, Strategies for improvement of QWL

BOOKS FOR REFERENCE:

1. Arora, Labour law.
2. D.Sanjeeviah, Labour problems and Industrial Developments in India.
3. Sharma A .M, Aspects of labour welfare and social security
4. Prasanna Chandra, Labour problem Social Security and Welfare.
5. Punekar and Deodhan, Labour Welfare, Trade Unionism and industrial Relations.

3. COMPENSATION MANAGEMENT AND LABOUR LEGISLATIONS

UNIT – 1:

Compensation Planning 8Hrs

Introduction, Basic concept of compensation, classical theories on wages, elements of labour economics, establishing pay rates, Importance of an ideal compensation plan, broad branding, Compensation plan and business strategy, devising a compensation plan, challenges affecting compensation.

UNIT – 2:

Industrial engineering 8Hrs

Pricing managerial and professional jobs, job evaluation, job structure

UNIT – 3:

Wage Policy 4Hrs

Concept of wage, Wage policy in India, determinants of wage policy, Impact of income tax on wage and salary administration, Tools used for fixation of wages.

UNIT – 4:

Pay Packet 4Hrs

Constituents – Basic, D A, H R A, and other allowance, Perquisites.

UNIT – 5:

Pay-for-performance & Financial incentives 6Hrs

Meaning and definitions, Background and trends, pre-requisites of effective incentive system, scope of incentive schemes, types of incentives – group incentive plan, for indirect workers, for operations employees for managers and professionals, for sales persons, Total compensation program.

UNIT – 6:

Benefits & services 8Hrs

Why benefits and services? Types of employee benefits and services – insurance, retirement, employee services benefit and others, Principles of Fringes, Significant benefits and service programs, Flexible benefit programs, administration of benefits and services, The future of fringe benefits, guidelines to make benefit program more effective, Benefits and employee leasing.

UNIT – 7:

Recent trends in compensation management 4Hrs

Recent trends in compensation management and the use of information technology

UNIT – 8:

Labour legislations: 8Hrs

Over view and aspects covered by Payment of wages Act, Payment of Bonus Act, Equal remuneration Act, ESI Act, maternity benefit Act, Payment of Gratuity Act, Factories Act, Minimum Wage Act, Industrial Employment (Standing Orders) Act, Industrial Disputes Act, PF Act.

BOOKS FOR REFERENCE:

1. A.M. Sharma, Understanding Wage System.
2. N.D.Kapoor, Labour Legislation.
3. C.B. Memoria, Personnel management.

4. HUMAN RESOURCES DEVELOPMENT

UNIT – 1:

HRD

6Hrs

Meaning and Importance of human resource development, Objectives of human resource development. Scope of human resource development

UNIT – 2:

Training and development

12Hrs

Orientation and training, Orienting employees, the training process, training needs analysis., training techniques, evaluating training efforts, Methods of training, sensitivity training – types roles of instructor, method, feedback, goals, misconceptions; case study, role play, business game, in-basket exercise, designing training program, actual practice, Designing training program – performance appraisal as a tool.

Development, Nature and purpose of management development, managerial on-the-job training, job rotation and management, off-the-job management development techniques, computerised managerial assessment and development program, using HR to build a responsive learning organization.

UNIT – 3:

Organisational development

8Hrs

Introduction, definition and concept, characteristics, operational goals of OD, conditions for OD success, Phases of OD, Techniques of OD- sensitivity training, benefits and limitation, what is a change process? Types of change, managing resistance, OD assumptions

UNIT – 4:

Development of Managers in HRD

6Hrs

Meaning of Potential Appraisal , meaning of counselling, counselling as a process of developing in organisation. Definition and concept counselling, objectives, what constitutes, conditions for effective counselling, process of counselling

UNIT – 5:

Managing Quality and productivity

6Hrs

Alternative work arrangements, using quality circle programs, attitude surveys, Total quality management programs, creating self-directed teams, extending participative decision making, HR and business process reengineering.

UNIT – 6:

Transactional Analysis

8Hrs

Definition, origins, philosophy of TA, goals, what is TA? 6 key concepts, Ego states, Transactions – Cross, Parallel, Ulterior

Strokes – different types, negative strokes, strokes economy

Life positions – I am ok You are ok and others, its relevance to managers, co-relative with self-esteem, attitudes

Time structuring – rituals to intimacy.

UNIT – 7:

4Hrs

Recent trends in the area of HRD – Personality quotient ,Emotional quotient and others, the use of computer and the internet

BOOKS FOR REFERENCE:

1. Pandey , HRD.
2. Rao and T.V. Verma, HRD.
3. Jean Marleen, Performance Oriented HRD.

INSURANCE GROUP

1. PRINCIPLES AND PRACTICE OF NON LIFE INSURANCE

OBJECTIVES:

1. To make students familiar with the fundamental principles of Non Life Insurance.
2. To give an indepth knowledge on practice of Non Life Insurance.

UNIT 1

Definition and nature of insurance, evolution of insurance, role and importance of insurance, insurance contract.

UNIT 2

Marine Insurance: Nature of Marine Insurance contract, marine insurance policies, policy conditions, premium calculation, marine losses, payment of claims, progress of marine insurance business in India.

UNIT 3

Fire Insurance: Nature and use of fire insurance, fire insurance contract, kinds of policies, policy conditions, rate fixation in fire insurance, payment of claim, re-insurance, progress of fire-insurance.

UNIT 4

Miscellaneous insurance: motor insurance, burglary and personal accident insurance, miscellaneous forms of insurance, rural insurance in India, Urban non-traditional insurance, progress of miscellaneous general insurance.

UNIT 5

Insurance Legislation in India: Insurance Act 1938, Marine Insurance Act 1968, General Insurance Business (Nationalisation) Act, 1972, IRDA Act.

SKILL DEVELOPMENT:

1. Develop an Innovative Insurance product in Marine, Fire, Motor, Burglary, Personal Accident Insurance.

2. List the product features of an existing Insurance product.
3. List the factors to be considered for fixation of premium.
4. List the terms of settlement of claims.
5. Identify some new areas where insurance concept can be introduced.

REFERENCE BOOKS:

1. M N MISHRA- Insurance Principles & Practice- S. chand & co., New Delhi.
2. G S PANDA – Principles & Practice of Insurance- Kalyani Publishers, Ludhiana.

2. LEGAL ASPECTS OF INSURANCE

OBJECTIVES:

To expose students to an overview of legal environment relevant to insurance business.

To expose students to the essentials of the relevant acts.

MODULE – 1:

The Legal Environment, The Insurance Act, 1938 (as amended), Life Insurance Corporation Act, 1956, General Insurance Business (Nationalisation) Act, 1973, Insurance Regulatory and Development Authority, IRDA Act.

MODULE – 2:

Motor Vehicles Act, 1939 & 1988. The Inland Stream Vessels, 1917 (as amended) Marine Insurance Act, 1963, The Carriage of Goods by Sea Act, 1925.

MODULE – 3:

The Merchant Shipping Act, 1958, The Indian Railways Act, 1890 (as amended), The Carriers Act, 1865, The Carriage by Air Act 1972.

MODULE – 4:

Workmens Compensation Act, 1923, Employees State Insurance Act, 1948, The Indian Stamp Act 1899, Consumer Protection Act, Arbitration Act, Lok Adalats.

Books for Reference:

1. M.N. Mishra; Insurance Principles and Practice; Sultan Chand & Co., New Delhi.
2. Pande; Insurance Principles and Practice.
3. M.J. Mathew; Insurance Principles and Practice.
4. Julia Holyoake / Bill Weipers; Insurance.
5. C. Arthur Williams, Jr. , Michael L. Smith, Peter C. Young; Risk Management and Insurance.
6. Insurance Regulatory Development Act 1999 and other relevant Acts.
7. Life Insurance Corporation Act 1956.
8. Gupta O.S.: Life Insurance; Frank Brothers, New Delhi.
9. Vinayakam N., Radhaswamy and Vasudevan SV: Insurance – Principles and Practice, Sultan Chand & Co., New Delhi.
10. Mishra M.N: Life Insurance Corporatin of India, Vols I, II and III; Raj Books, Jaipur.
11. Dinsdale M.A: Elements of Insurance.
12. Srinivasan M. N: Principles of Insurance Law.
13. New & Bacon: Principles and Practice of Life Assurance.
14. Books published by Insurance Institute of India, Bombay.

- a. Principles of Life Insurance
 - b. Practice of Life Assurance
 - c. Life Assurance under writing
 - d. Legal Aspects of Life Assurance
 - e. Principles of General Insurance
 - f. Fire Insurance subjects
 - g. Marine Insurance subjects
 - i. Miscellaneous Insurance subjects
 - j. Legal Digest
15. Books published for vocational courses in Life assurance and general insurance.
 16. Sharma R.S: Insurance Principles and Practice.
 17. Dhavi B.S: Insurance Principles and Practice.

3. LIFE INSURANCE

OBJECTIVES:

- i. To expose students to an overview of the working of life insurance business.
- ii. To impart to students relevant skills for handling major functions of life insurance business.

MODULE – 1:

Life Insurance Organisation – The Indian Context, The Distribution System, Function of Agents, Appointment and Continuance of Agency, Remuneration to Agents, Trends in Life Insurance Distribution Channels.

Plans of Life Insurance – Need Level, Term Life Insurance, Increasing / Decreasing Term Policy, Whole Life Insurance, Endowment Insurance, Money Back Endowment Plan, Marriage Endowment Plan, Educational Annuity Plan, Children Deferred Assurance Plans, Annuities.

Group Insurance – Nature of Group Insurance, Types of Group Insurance, Gratuity Liability, Group Superannuation Scheme, Other Group Schemes, Social Security Schemes.

Other Special Need Plan – Industrial Life Insurance, Salary Saving Scheme, Disability Plans, Sickness related, Unit Linked Insurance plans.

MODULE – 2:

Application and Acceptance – Prospectus, Proposal Forms and other related documents, Age proof, Special Reports.

Policy document – need and format – Preamble, Operative clauses, Proviso, Schedule, Attestation, Conditions & Privileges, Alteration, Duplicate Policy.

MODULE – 3:

Premium, premium calculation, Days of grace, Non-Forfeiture Options, Lapse and Revival Schemes.

Assignment Nomination Loans – Surrenders – Foreclosure – Married Women’s Property Act Policy, Calculations.

MODULE – 4:

Policy Claims, Maturity Claims, Survival Benefit Payments, Death Claims, Waiver of evidence of title, Early claims, Claim concession, Presumption of Death, Accident Benefit and Disability Benefit, Settlement options, Valuations and Bonus, Distribution of Surplus.

Types of Re-insurance, Exchange Control Regulations, Payment of premia, Payment of Claims etc., Assignment in favour of Non-Residents.

Books for Reference:

1. M.N. Mishra; Insurance Principles and Practice; Sultan Chand & Co., New Delhi.
2. Pande; Insurance Principles and Practice.
3. M.J. Mathew; Insurance Principles and Practice.
4. Julia Holyoake / Bill Weipers; Insurance.
5. C. Arthur Williams, Jr. , Michael L. Smith, Peter C. Young; Risk Management and Insurance.
6. Insurance Regulatory Development Act 1999 and other relevant Acts.
7. Life Insurance Corporation Act 1956.

8. Gupta O.S.: Life Insurance; Frank Brothers, New Delhi.
9. Vinayakam N., Radhaswamy and Vasudevan SV: Insurance – Principles and Practice, Sultan Chand & Co., New Delhi.
10. Mishra M.N: Life Insurance Corporation of India, Vols I, II and III; Raj Books, Jaipur.
11. Dinsdale M.A: Elements of Insurance.
12. Srinivasan M. N: Principles of Insurance Law.
13. New & Bacon: Principles and Practice of Life Assurance.
14. Books published by Insurance Institute of India, Bombay.
 - a. Principles of Life Insurance
 - b. Practice of Life Assurance
 - c. Life Assurance under writing
 - d. Legal Aspects of Life Assurance
 - e. Principles of General Insurance
 - f. Fire Insurance subjects
 - g. Marine Insurance subjects
 - h. Miscellaneous Insurance subjects
 - i. Legal Digest
15. Books published for vocational courses in Life assurance and general insurance.
16. Sharma R.S: Insurance Principles and Practice.
17. Dhavi B.S: Insurance Principles and Practice.

4. MANAGEMENT OF INSURANCE BUSINESS

OBJECTIVES:

This paper aims at

- i. giving an insight into the working of an insurance company.
- ii. high-lightens the managerial issues in different functional areas of management like HR, Finance, Marketing and Operations

MODULE – 1:

Organisation structure of insurance business; HR practices in Insurance business, training and development, compensation, incentives.

MODULE – 2:

The insurance market - Marketing programmes – Research – Customer services – Consumer Protection Act – Customer charter – Distribution channels.

MODULE – 3:
Accounting and Finance

Accounting for insurance business - compliance with IRDA rules - Taxation.
Investments, evaluation of investments - Capital structure - cost of capital, solvency margin and compliance. Financial ratios – critical ratios and analysis, control system. Insurance company output and cost.

Difference in Accounting Practices between Life and General Insurance – Reserve funds – investments – capital structure – solvency margin – deposits with Government

MODULE – 4:
Insurance Operations

Claims management, policy holder servicing, Consumer protection act and IRDA, Rights and duties of clients, appeals – grievance redressal. Back-office operations BPO. IT and insurance.

MODULE – 5:
Regulations of insurance – Insurance Act (1938). IRDA – salient features.

Laws relating to insurance, GIBNA, Insurance Act, W.C. Act, ESI Act, Compulsory PLI Act, M.V. Act, Marine insurance Act, Carriage of Goods by Sea Act, Carrier's Acts, Law of Contract, Foreign Exchange Regulations.

Books for Reference:

1. M.N. Mishra; Insurance Principles and Practice; Sultan Chand & Co., New Delhi.
2. Pande; Insurance Principles and Practice.
3. M.J. Mathew; Insurance Principles and Practice.
4. Julia Holyoake / Bill Weipers; Insurance.
5. C. Arthur Williams, Jr. , Michael L. Smith, Peter C. Young; Risk Management and Insurance.
6. Insurance Regulatory Development Act 1999 and other relevant Acts.
7. Life Insurance Corporation Act 1956.
8. Gupta O.S.: Life Insurance; Frank Brothers, New Delhi.
9. Vinayakam N., Radhaswamy and Vasudevan SV: Insurance – Principles and Practice, Sultan Chand & Co., New Delhi.
10. Mishra M.N: Life Insurance Corporation of India, Vols I, II and III; Raj Books, Jaipur.
11. Dinsdale M.A: Elements of Insurance.
12. Srinivasan M. N: Principles of Insurance Law.
13. New & Bacon: Principles and Practice of Life Assurance.
14. Books published by Insurance Institute of India, Bombay.
 - a. Principles of Life Insurance
 - b. Practice of Life Assurance
 - c. Life Assurance under writing
 - d. Legal Aspects of Life Assurance
 - e. Principles of General Insurance
 - f. Fire Insurance subjects
 - g. Marine Insurance subjects
 - h. Miscellaneous Insurance subjects
 - i. Legal Digest
15. Books published for vocational courses in Life assurance and general insurance.
16. Sharma R.S: Insurance Principles and Practice.
17. Dhavi B.S: Insurance Principles and Practice.

INFORMATION SYSTEMS AND MANAGEMENT

1. RELATIONAL DATA BASE MANAGEMENT [RDBMS] & MS-ACCESS

Module – I:

6 hours

Database and Database management Systems: Introduction. History of Database Management Systems, Characteristics of DBMS, Meaning and Definition of Database, objectives of database, advantages of database and disadvantages of traditional file environment systems, meaning and definition of Database Management Systems [DBMS], Designing Databases – Hierarchical Data model, Network Data model, and Relational Data models. Database trends: Distributed Databases, data warehousing, and data mining, Object-oriented hypermedia Databases, linking databases to the web.

Module – II:

10 hours

Relational Database [RDBMS]: The Relational Database Model – Techniques, Components of Relational Model, Definition of Relational Terms, Features of RDBMS, CODD's 12 rules for a fully RDBMS. Relational implementation – Primary and Foreign Keys, Relationships in the relational model – introduction to ER – Model, one-to-one, one-to-many, many – to – many relationship, Examples of Data definition language, Queries: - Maintaining Integrity – Defining Data Integrity, Integrity Rules, Relational Integrity Rules, Referential Integrity, Entity Integrity, Domain Integrity, Entity Integrity, User-defined Integrity, Integrity Constraints, Domain Constraints, Normalisation - Benefits of normalization, Functional Dependency and Determinants, Normalisation Theory, -Review of Normal Forms. Structured Query Language [SQL], Characteristics of SQL. Types of SQL [DCL, DDL, DML], Basic queries in SQL – Single table, Multi table, Retrievals, Nested Queries, Deletion, Insertion, and Update in SQL, Additional features of SQL.

Module – III:

12 hours

Object Modeling and Database Design: Introduction, Types of Data Models (Conceptual, Logical and Physical Data modeling), Model Development – Attributes of Modeling, types of Model viz., ER model, the object-oriented model, record based models, physical data models, Stages of Data modeling, Modelling – Three Schema Architecture, Entity Relationship [ER] – model, Entities Attributes and Relation [EAR] models, Entity Relationship Diagrams, Other Styles of ER Diagram, The Data Dictionary, Transforming from Logical to Physical, Storage Structure – types, Sorting and Indexes, Pointer chains, Advantages & Disadvantages of Pointer Chains, Sorting Data in a file, Necessity of files, Working parts of a DBMS, File Formats, Fixed Format Files, File Processing Activities, File organization & Methods, Clustered Indexes, Non – Clustered Indexes, Covering Indexes, Index Selection, Database Design: - Selecting your data, normalization, identifying domains, naming standards, denormalisation and the rules of reconstruction, physical design of databases, rule of reconstruction, over normalization, Reverse Engineering of Databases, Good Database Design, Designing DBMS for Enterprises

Module – IV:

10 hours

Brief note on different types of DBMS, Introduction to MS-Access Opening a Database, Using table, query, form, reports etc., Creating a Database Table using table wizard, and table window in design view, defining fields, primary key fields, using datasheet, modifying the design of a table, making a backup copy, etc. Working with Data: - Adding and Editing Data, Finding Records, Quick Sorts, Changing the Format of the Data Sheet, Working with columns, other format changes, printing the datasheet. Querying and filtering your Data: - Working with simple Queries, Working with more complex queries, filters. Fast Forms, Reports, and Mailing Labels: - Using Forms, AutoForms, Creating and using forms, the form wizard, working with data in the Form window,

creating a sample form, using report- auto reports, creating and using reports, the report wizard, mailing labels and creating sample mailing labels. Relational Databases in Ms-Access:- Creating a Default Relationships, Creating a Sample Database, Queries with Relational Databases, Reports and Forms on Relational Databases, Using Lookup Fields for Data Entry.

Module –V:

12 hours

Designing Custom Forms in Ms-Access, Working with Expressions, Designing Custom Reports, Using Advanced queries, Saving Time with Macros, Utilities and Special Techniques,

Books for Reference:

1. **Alexis Leon & C.K. Thomas** “DB2 (IBM’s Database 2) The Complete Book for Application Programmers” – Comdex Computer Publication a division of Pustak Mahal.
2. **R.K. Taxali** “ dBASE III PLUS Made Simple With dBASE IV and FoxBASE +” – Tata McGraw – Hill Publishing Company Limited, New Delhi.
3. **Er. V. K. Jain** “ DATABASE MANAGEMENT SYSTEMS”- Dreamtech press, New Delhi.
4. **Prof. S. Nandagopalan** “ Database Management Systems- *A Practical Approach*” – Sapna Book House, Bangalore.
5. **James Martin** “ Principles of Data-Base Management” – Printice Hall of India New Delhi.
6. **Dr. R. N. De** “ Introduction to dBASE III PLUS for Beginners including programming ” – The New book Stall, Calcutta.
7. **Carol McCullough** “Oracle 9i for Dummies” - **Dieter**
8. **Wallace Wang & Roger C. Parker** “ Ms- Office 200 Windows for Dummies”
9. **P.S. Despande** “ SQL PL/SQL for Oracle 8 & 8i”
10. **Graeme C. Simsion** “Data Modelling Essentials: The Ultimate Reference – 2nd Edition
11. **John Kaufeld** “ Access 2002 for Dummies” – Willy Dreamtech India Pvt. Ltd.,
12. **Charles Siegel** “ Teach yourself Access for Windows 95” – BPB Publications, New Delhi.

2. SYSTEM ANALYSIS, DESIGN AND INFORMATION SYSTEMS

Module – I:

15 Hours

Meaning and Definition of Systems – Types of systems: Deterministic and Probabilistic systems, Open and Closed Systems, Sub-systems concepts and system interfaces, Business organization as system, Systems theory applied to MIS, Systems Integration between Business Systems and MIS, Systems Engineering Concepts, Systems Analysis and Design, Entity relationship model, System life cycle, Software project management.

Module – II:

10 Hours

Development of MIS, MIS plan, Current Status Review, Forecasting, Focusing, Preparation of Information Systems Master Plan, Selecting the Right tools, Problems with MIS, MIS Design, Implementation of MIS, Key issues in MIS implementation, Evaluation of MIS, Technical Evaluation, Economic Evaluation and Re-engineering

Module – III: 10 Hours
Group decision support Systems [GDSS], Executive Information Systems [EIS], Expert Systems, Artificial Intelligence

Module – IV: 5 Hours
Computer Crimes and Ethics, Information Systems Security and Control.

Module – V:
ERP, E-CRM, Information outsourcing and Data resource Management. 10 Hours

Books for Reference:

1. **Er. V. K. Jain** “ System Analysis and Design Handbook” – Wiley Dereamtech India Pvt. Ltd.,
2. **James A. O’ Brien.** “Management Information Systems” –Galgotia Publications Pvt. Ltd. New Delhi.
3. **Raymond Mcleod. Jr.** “Management Information Systems - A study of Computer Based Information systems”
4. **Larry Long** “Management Information Systems”
5. **Denneth C. LAUDON AND Jane P. LAUDON.** “Essentials of Information Systems”- Third Edition
6. **G. L. Simons** “Introduction to Systems Analysis and Design” –Galagotia Book source.
7. **Dr. Milind M. Oka.** “Management Information Systems” – Everest Publishing House.
8. **Robert G. Murdic, Joel E. Ross, and James R. Claggett** “Management Information Systems for Modern Management.”
9. Administering SAP R/3 ASAp World Consultancy Jonathan Blain and Bernard Dodd.
10. **S.K. BASANDARA** “Computer for Management – design an effective MIS”
11. John Evans Gessford “Modern Information Systems”

3. PROGRAMMING IN ‘C’

Module – I: 5 hours
Introduction to Programming: Meaning of Program, The role played by a Program to Perform a task, Types Programming Languages, Program Development Cycle, Elements of a Programming Languages – Data and Variables, Arithmetic, Relational, and Logical Operators, Program Flow Control, Arrays, Structures, Functions, etc.,

Module – II: 10 hours
Introduction to “C”: Feature of ‘C’, How to Start ‘C’, Data type in ‘C’, Different types of operators. Loops and Decisions

Module – III: 15 hours
Development of Functions in ‘C’, Arrays, Structures & Unions & Pointers

Module – IV: 10 hours
File Processing, Memory Management, Graphics programming

Module –V:

10 hours

System software design in 'C' and interaction with hardware through 'C'.

Books for Reference:

1. **Yeshavant P. Kanetkar.** “ Let Us 'C'.” - 4th Edition, BPB Publication, New Delhi.
2. **R.B. Patel.** “Go Through 'C' ” - BPB Publication, New Delhi.
3. **John Connely.** “ C Through Objects” – Willey Dreamtech India Pvt. Ltd.,
4. **Stevens** “ C Language for Programmers” - BPB Publication, New Delhi.
5. **Dharaskar** “ The Hidden Treasures of C” - BPB Publication, New Delhi
6. **Holzer.** “ C with Assembly Language” - BPB Publication, New Delhi
7. **Radcliffe.** “ Encyclopedia of C” - BPB Publication, New Delhi
8. **A. Jones & Keith Harrow.** “ C Programming and Problem Solving” - Willey Dreamtech India Pvt. Ltd.,
9. **Manoj Kumar Gupta.** “ Computer & C Programming” - Willey Dreamtech India Pvt. Ltd.,

4. OBJECT ORIENTED PROGRAMMING AND C++ LANGUAGE

Module – I:

10 Hours

Introduction to Object Oriented Programming (OOPs): OOPs as a problem solving method: Objects, Classes, Abstraction, Encapsulation, Subclasses, Inheritance & Polymorphism, OOP as software design methodology,. Significance of using Private and Public Members, Member Function within the Class, Defining the Objects of a Class, Defining Member Functions outside the Class, Array of Objects

Module – II:

15 Hours

Variable and Data types in C++, Operators in C++, Loops in C++,

Module – III:

10 Hours

Array Handling and Functions in C++

Module – IV:

10 Hours

Structures in C++

Module – V:

5 Hours

Pointers in C++

Books for Reference:

1. **Vikas Gupta.** “ Computer Programming Course Kit” – Comdex Dreamtech Publication New Delhi.
2. **Kanetkar.** “ C++ Programming.”- BPB Publication New Delhi.
3. **Smith.** “Object Oriented Programming Using TURBO C++” - BPB Publication New Delhi
4. **Parsons.** “ Object Oriented Programming with C++” - BPB Publication New Delhi

5. **Greag Holden.** “ C++ Programming for Dummies” 4th Edition, Willey Dreamtech India Pvt. Ltd., New Delhi.

TAXATION GROUP
PAPER 1 : DIRECT TAX PLANNING

OBJECTIVES:

To enable the students to understand and apply the provision of Income Tax for Tax Planning.

UNIT – 1:

Concept of Taxation: Definition, role of public finance as an instrument of public policy – features of a good tax system – central and state powers of taxation – distribution of revenues between center and state – direct and indirect taxes – merits and demerits – impact of incidence – central and state budget salient features (budgets of the relevant year may be discussed) (Theory only) – salient features of Raja Chellian Committee and Kelkar Committee..

UNIT – 2:

Basics of Tax Planning: Meaning – methods – Tax Planning V/s Tax Management – Tax evasion cases on tax planning – (a) Mc dowell and Co. Ltd., V/s CTO – Tax Planning with respect to salaries.

UNIT – 3:

Tax Planning with respect to Individuals and Firms.

UNIT – 4:

Tax Planning with respect to Companies, amalgamation and mergers, multinational companies, double taxation treaties, joint ventures and foreign collaborations, tax consideration in make or buy, own or lease, retain or replace.

SKILL DEVELOPMENT:

?w Preparation of IT Returns relating to Salaries / Tax planning schemes for employees.

?œ Computation of Advance Tax payable .

?¾ Interest calculation late submission of returns etc.

?ã Case study on lease or buy decision.

? Case study on retain or replace.

?S List out the countries with which India has double taxation treaties.

?– Description of one or two aspects of tax planning in respect of companies.

BOOKS FOR REFERENCE:

1. Dr. Bhagwati Prasad: Direct Taxes Law and Practice, Wishwa Prakashan, Delhi.
2. Dr. Vinod K. Singhania: Direct Taxes Law and Practice, Taxmann publication.
3. P.K. Agarwal: Tax Planning for Companies, Hind Law Publishers, New Delhi.
4. Dr. H.C. Mehrotra & Dr. S.P. Goyal: Income Tax Law and Practice, Sahitya Bhavan, Agra.
5. B.B. Lal: Direct Taxes, Konark Publication, Delhi.

PAPER 2 : COMMERCIAL TAXES

OBJECTIVES:

To familiarise the students with tax laws and procedures relating to Indirect Taxes.

UNIT – 1:

The Central Sales Tax Act, 1956: Concept of sale and purchase in the course of intra-state, inter-state, import and export trade or commerce – Registration of dealers.

UNIT – 2:

Payment of Central Sales Tax - determination of turnover – levy and collection of tax – penalties and cognizance of offences – goods of special importance.

UNIT – 3:

VAT – procedures relating to levy and collection of VAT in Karnataka.

UNIT – 4:

Administration and Collection of Tax – Authorities under the Act – Appeals and Revision and offences and penalties.

UNIT – 5:

An over view of Karnataka State Taxes – professional tax – entertainment tax – entry tax – agriculture income tax.

SKILL DEVELOPMENT:

1. Determination of Total and Taxable Turnovers.
2. Filing of the prescribed forms of registration under VAT and CST Acts.
3. Preparation of Monthly / Quarterly / Annual returns and payment of Tax by dealers.
4. Preparation of 'Tax Invoice' and 'Bill of Sale'.
5. Preparation of the statutory forms for availing Concessions / Exemptions of Tax.

BOOKS FOR REFERENCE:

1. L.K. Jain: Central Excise Manual, Century Publications Pvt. Ltd., Delhi.
2. Karnataka Value Added Tax Act 2003 published by Karnataka Law Journal Publications, Bangalore – 560 009.
3. V.S. Datey: Indirect Taxes Law and Practice (CST Act).
4. Chaturvedi: Central Sales Tax Laws in 2 volumes.
5. Bare acts of CST and KST.

PAPER 3 : CUSTOMS ACT AND CUSTOMS TARIFF ACT

OBJECTIVES:

To familiarise the students with tax laws and procedures relating to Customs and Customs Tariff Act.

UNIT – 1:

Principles governing Levy of Customs duty – types of duties – exemption from Customs duty.

UNIT – 2:

Basic principles of classification of goods and valuation of goods.

UNIT – 3:

Provisions governing conveyance, importation and exportation of goods, provisions regarding baggage, goods imported or exported by post and through Courier. Provisions regarding stores, warehousing, transit and transshipment of goods. Prohibitions on import and export. Duty drawback and circumstances.

UNIT – 4:

Customs Authorities, appointment of Customs ports, Warehousing stations. Adjudication, appellate remedies including settlement Commission and Advance Rulings.

UNIT – 5:

Service Tax Act: Background of Service Tax, charge to Service tax, taxable service, liability to pay service tax and exemption - Services on which tax is payable. Procedure for Registration, filing of returns, payment of Tax, Records maintained by assesses and assessment. Authorities under the Act.

SKILL DEVELOPMENT:

1. Preparation of different types of Bill of Entry.
2. Preparation of different shipping bills.
3. Preparation of Baggage declaration form.
4. Filing of Registration forms, half yearly returns and challans for payment of Tax under Service Tax Act.

BOOKS FOR REFERENCE:

1. V.S. Datey: Indirect Taxes – Law and Practice.
2. R.K. Jain: Customs Law Manual and Customs Tariff of India.
3. B.N. Gururaj: Guide to Customs Procedures.
4. Taxmann's: Customs Manual and Customs Tariff.
5. C. Parthasarathy and Sanjiv Agarwal: A Hank Book of Service Tax, Law, practice and procedures.
6. P. Veera Reddy: Guide to Service Tax.

PAPER 4 : CENTRAL EXCISE ACT AND CENTRAL EXCISE TARIFF ACT

OBJECTIVES:

To familiarise the students with tax laws and procedures relating to Central Excise and Central Excise Tariff Act.

UNIT – 1:

Nature of excise duty, Legislative history, coverage; Levy and Collection of excise duties under the Central Excise Act, 1944. Legal effects of notifications, Trade Notices and Tariff Advises.

UNIT – 2:

Provisions governing manufacture and removal of excisable goods, valuation under the Central Excise Act, 1944, Central Excise Valuation (Determination of transactional value) Rules 2000. Classification of goods under C.E.T. Act 1985 with reference to Rules of interpretation.

UNIT – 3:

Registration procedures. Assessment including provisional assessment, self-removal procedure, payment of duty. Procedure relating to storage of excisable goods, time and manner of payment of duty and matters relating to removal of goods.

UNIT – 4:

Maintenance of records, registers and filing of returns. Remission of duty. Procedure for exports, duty drawback.

UNIT – 5:

Provisions relating to CENVAT. Authorities under the Act and their Powers. Concessions for Small Scale industries. CENVAT on Capital Goods.

SKILL DEVELOPMENT:

1. Preparation of Registration Forms.
2. Preparation of prescribed returns such as ER1/ER2.
3. Preparation of challans for payment of duty.
4. Preparation of Manufacturers Invoice.
5. Compilation of P.L.As.

BOOKS FOR REFERENCE:

1. V.S. Datey: Indirect Taxes – Law and Practice.
2. Taxmann's: Central Excise Manual and Central Excise Tariff.
3. Taxmann's: CENVAT Law and Procedure.
4. R.K. Jain: Central Excise Law Manual and Central Excise Tariff of India.



BANGALORE UNIVERSITY
DEPARTMENT OF BOTANY

SYLLABUS

B. Sc., BOTANY
I – VI SEMESTER
2014

PROCEEDINGS OF THE MEETING OF THE BOARD OF STUDIES (UG) IN BOTANY, BANGALORE UNIVERSITY HELD ON 11 JUNE 2014 IN THE DEPARTMENT OF BOTANY, BANGALORE UNIVERSITY, BANGALORE – 560 056. AT 11-00 A.M.

Venue: Department of Botany, Bangalore University, Jnana Bharathi, Campus, Bangalore 560 056

Date: 11-06-2014

Time: 11-00 am

Agenda: To finalize the Scheme of study, Syllabus and Examination pattern for Undergraduate Credit Based Semester Scheme.

Members Present:

1	Prof. D.H. Tejavathi	Chairperson	Sd/
2	Sri. A. Karthikeyan	Member	Sd/
3	Sri. N.S. Shivashankaraiah	Member	Sd/
4	Dr. N. Venugopal	Member	Sd/
5	Smt. K. Pushpa	Member	Sd/
6	Sri. Mohamad Ataula	Member	Sd/
7	Dr. Abdul Khayum	Member	Sd/
8	Smt. C. Shathakumari	Member	Sd/
9	Sri. K. G. Annappaswamy	Member	Sd/
10	Smt. K. S. Shylaja	Member	Sd/
11	Dr. Sabiha Sulthana	Member	Sd/
12	Prof. G. Krishnakumar	External member	Sd/
13	Prof. M.S. Sudarshana	External member	Sd/

Member Absent:

1. Dr. Leelavathi Member

MINUTES OF THE BOS (UG) MEETING:

Chairperson welcomed the members to the meeting and thereafter the agenda was taken up for discussion

1. Discussed and finalized syllabus for Theory and Practicals from I to VI semesters, Question Paper pattern, and Scheme of Valuation for B.Sc., Credit Based Semester system.
2. Chairperson is authorized to change or modify the syllabus based on the requirement.

The meeting ended with a vote of thanks by the Chairperson.


CHAIRPERSON.

PROFESSOR & CHAIRPERSON
Department of Botany
Bangalore University
Bangalore - 560 056.

**PROFORMA FOR THE SCHEME OF STUDY AND EXAMINATION OF CREDIT BASED SEMESTER
SCHEME, BACHELLOR'S DEGREE IN SCIENCE**

Seme ster	Paper	Title of the Paper	Instruction hrs/week		Total No.Hrs.		Duration of Exam (hrs)		Max. Marks for Examination						Credits			
			Theory	Practical	Theory	Practical	Theory	Practical	Theory	Practical	IA	Exam	Total	Theory	Practical	Total	Theory	Practical
1	I	Diversity of Non- Vascular plants Part-1 Introduction to Microbiology, Viruses, Bacteria, Cyanobacteria and Phycology	4 hrs	3 hrs	52	52	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
2	II	Diversity of Non- Vascular plants Part-2 Mycology, Plant Pathology, Bryophytes and Plant Anatomy	4 hrs	3 hrs	52	52	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
3	III	Pteridophytes, Palaeobotany, Environmental Biology and Phytogeography.	4 hrs	3 hrs	52	52	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
4	IV	Gymnosperms and Embryology of Angiosperms	4 hrs	3 hrs	52	52	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
5	V	Taxonomy and Economic Botany	3 hrs	3 hrs	39	39	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
6	VI	Molecular Biology, Genetic Engineering, Biotechnology and Plant Physiology	3 hrs	3 hrs	39	39	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
	VII	Cytology, Genetics, Evolution and Plant Breeding	3 hrs	3 hrs	39	39	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03
	VIII	Plant Physiology.	3 hrs	3 hrs	39	39	3 hrs	3 hrs	30	15	70	35	100	50	150	02	01	03



Chairperson

PROFESSOR & CHAIRPERSON
Department of Botany
Bangalore University
Bangalore - 560 056.

**QUESTION PAPER FORMAT
THEORY EXAMINATION**

Masks for each question	Number of question to be		Total Marks
	Answered	Out of	
A. 2	10	12	20
B. 5	4	6	20
C. 10	3	5	30
Total			70

BANGALORE UNIVERSITY

**B.Sc., Degree Examination December / January 20
(Undergraduate Credit Based Semester Scheme)
BOTANY**

Paper:

Time: 3 hours

Max. Marks : 70

- A. Explain / Define any ten of the following in **two** or **three** sentences: (10x2=20)
- B. Write critical notes on any **four** of the following (4x5=20)
- C. Give a comprehensive account on any **three** of the following (3x10=30)

INTERNAL ASSESSMENT

1. **THEORY** 30 MARKS – Attendance = 5, Assignment=5, Test =2
(ten marks each)
2. **PRACTICAL** 15 MARKS – Continues Assessment = 10, Test = 5

Frame Work

Semester I – Paper I	Dr. Venugopal.N, Govt. Science College, Nrupathunga Road, Bangalore – 560 001.
Semester II – Paper II	Prof.Karthikeyan.A. K. G. F. First Grade College, Ooragaum, KGF – 563 120
Semester III – Paper III	Ms.Pushpa.K. MES Degree College Arts, Commerce & Science, Malleshwaram, Bangalore 560 003.
Semester IV – Paper IV	Smt.Shylaja. K. S. Vijaya College, R. V. Road, Bangalore-560 004.
Semester V – Paper V	Dr.Abdul Khayum, Govt. College for Women, Chinthamani 563 125, Kolar District.
Semester V – Paper VI	Sri.Shivashankaraiah, Govt. First Grade College, RPC Layout, Vijayanagar, Bangalore – 560 040.
Semester VI– Paper VII	Sri.Annappa Swamy, H. K. E. Society, Sadashivanagar, Bangalore- 560 080..
Semester VI – Paper VIII	Sri.Mohammed Atha Ulla, Govt. Science College, Nrupathunga Road, Bangalore – 560 001.

I SEMESTER

PAPER – I: DIVERSITY OF NON VASCULAR PLANTS - PART-I

INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA, CYANOBACTERIA AND PHYCOLOGY

		52 hrs
UNIT I:	INTRODUCTION TO MICROBIOLOGY AND VIRUSES Introduction, aim, objectives, scope of microbiology and significance. Branches of microbiology- Industrial, Medical, Agricultural and Environmental microbiology, Contributions of scientists to the field of microbiology (Anton von Leeuwenhock, Louis Pasteur, Robert Koch, Alexander Flemming) Isolation of microbes from soil – brief account of culture media, serial dilution, pour plate method and colony characteristics of bacteria. Applied Microbiology- A brief account of Biofertilizers, Biopesticides, Biogas production, Bioremediation, and Bioconversion of waste products. A brief history of Virology – (Adolf Mayer, Iwanowsky, Beijerinck, W. M. Stanley, F. W. Twort), General composition and properties of viruses, Architecture of TMV & Bacteriophages, Multiplication & transmission. A brief account of Prions and Viroids Common plant diseases – Little leaf of Tomato and <i>Vinca rosea</i> , Yellow Mosaic of Beans, and Papaya leaf curl	13 hrs
UNIT II:	STUDY OF BACTERIA Introduction, Brief account of Bergey's system of bacterial classification. Occurrence, size and shape, arrangement of flagella and structure of Bacterial cell. Reproduction – Binary fission and genetic recombination. A brief history of plasmids – definition, properties and types, structure and importance of Ti plasmid, bacterial nutrition, phototrophs and chemotrophs. Economic importance – Role of bacteria in agriculture, medicine and industry. Bacterial disease - Citrus canker. General account of Mycoplasma – Sandal spike disease. Immunology – Brief account of immune systems, application of immune techniques in agriculture and industry, monoclonal anti bodies (ELISA, Hybridoma techniques).	13hrs

UNIT III:	STUDY OF CYANOBACTERIA AND PHYCOLOGY – PART-I Cyanobacteria: Introduction, general characteristics, outlines of classification, thallus structure, ultra structure of cell, photosynthesis, reproduction, economic importance of Cyanobacteria, SCP, Biofertilizers, role in water pollution and treatment. Type study: <i>Anabaena, Spirulina, Scytonema</i> Phycology-Part-I: Introduction, general characteristics, outlines of classification (Fritsch – 1947), thallus structure, pigmentation, reproduction. Economic importance of algae in industry, agriculture and medicine. Toxic algae – Algal blooms, fish poisoning.	13hrs
UNIT IV:	PHYCOLOGY- PART –II Occurrence, structure, reproduction and life cycle: <i>Chlamydomanas, Hydrodictyon, Oedogonium, Chara, Sargassum, and Polysiphonia</i>	13hrs

PRACTICAL PAPER – I

DIVERSITY OF NON VASCULAR PLANTS

INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA, CYANOBACTERIA AND PHYCOLOGY

Total Units - 13

- | | |
|--|----------------|
| 1. Study of instruments: autoclave, inoculation chamber, hot air oven, incubator and inoculation loop.
Sterilization of glass ware and media preparation (Nutrient Agar, Martin Rose Bengal Agar).
Isolation of Bacteria from soil by pour plate method. | 2 units |
| 2. Colony characteristics of Bacteria to identify colonies obtained.
Bacterial diseases - Tomato Leaf curl disease, citrus canker, Mycoplasma-sandal spike | 2 units |
| 3. Plant viral diseases- Little leaf of Tomato and <i>Vinca rosea</i> , Yellow Mosaic of Beans, and Papaya leaf curl
Gram staining: a) Rhizobium from root nodules b) Lactobacillus from curds. | 2 units |
| 4. Measurement of cell concentration – yeast cells / fungal spores using Haemocytometer. Type study of Cyanobacteria: <i>Anabaena, Spirulina, Scytonema</i> | 2 units |
| 5. Type study of algae: <i>Chlamydomanas, Hydrodictyon, Oedogonium, Chara, Sargassum</i> and <i>Polysiphonia</i> | 5 units |

PRACTICAL QUESTION PAPER-I

DIVERSITY OF NON VASCULAR PLANTS

INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA, CYANOBACTERIA

AND PHYCOLOGY

Max Marks – 35

1. Identify Given specimens **A, B, C & D** with labeled diagrams and reasons 4x3=12
 2. Describe colony characteristics of given colony **E** and tabulate your observations. 2
 3. Prepare temporary slide of **F**, sketch, label and identify with reasons. Leave preparation for evaluation. 5
 4. Stain given material **G** by gram staining write the procedure and identify with reasons. Leave preparation for evaluation 3
- Or
- Calculate the population of fungal spores / yeast cells **G** using haemocytometer
5. Identify Slide **H** and **I** with labeled diagrams with reason 2 x 2 ½ = 5
 6. Record and Submission 5+3= 8

SCHEME OF VALUATION

1. Four specimens **A, B, C, D**- two from algae, one from Cyanobacteria and one specimen of diseases / Herbarium. (Identification – 1 mark, labeled diagram with reasons 2 marks)
2. Colony characters of the given colony **E** – 2 marks,
3. Specimen **F** from algae - mounting – 2 marks. Identification – 1 mark, sketch with reasons 2 marks)
4. Specimen **G** – Gram staining (Staining, Procedure and result – each 1 mark).
OR
Calculation of fungal spores / yeast cells using haemocytometer (Procedure 1 mark, calculation – 2 marks)
5. Two permanent slides **H & I** - from algae / Cyanobacteria (Identification – 1 mark, sketch with reasons 1 ½ marks)
6. a) Record – 5 marks
b) Submission of 3 algae / Cyanobacteria materials – 3 marks

REFERENCES

1. Aggarwal, S. K. 2009. **Foundation Course in Biology**, A one books Pvt. Ltd., New Delhi.
2. Aneja, K. R. 1993. **Experiments in Microbiology, Pathology and Tissue Culture**, Vishwa Prakashan, New Delhi.
3. Annie Ragland, 2012. **Algae and Bryophytes**, Saras Publication, Kanyakumari, India.
4. Basu, A. N. 1993. **Essentials of Plant Viruses, Vectors and Plant diseases**, New Age International, New Delhi.
5. Chopra. G. L. 1984. **A text book of Algae**, Rastogi publications, Meerut, India.
6. Desikachari, T. V. 1959. **Cyanophyta**, ICAR, New Delhi.
7. Dubey, R. C. and Maheshwari. D.K. 2012. **Practical Microbiology**, S. Chand & Company, Pvt. Ltd., New Delhi.
8. Fritsch, R. E. 1977. **Structure and Reproduction of Algae**, Cambridge University Press, London.
9. Kodo, C.I. and Agarwal, H.O. 1972. **Principles and techniques in Plant Virology**, Van Nostrand, Reinhold Company, New York.
10. Madhavee Latha, P. 2012, **A Textbook of Immunology**, S. Chand & Company Pvt. Ltd., New Delhi.
11. Pandey B.P. 2001. **College Botany Volume 1**, S Chand & Company Pvt. Ltd., New Delhi.
12. Pandey. B.P. 2014 **Modern Practical Botany**, (Vol-I) S. Chand and Company Pvt. Ltd., New Delhi.
13. Pelzar, 1963. **Microbiology**, Tata Mc Graw Hill, New Delhi
14. Rangaswamy, G. 2009, **Disease of Crop Plants in India**, Prientice Hall of India, New Delhi.
15. Sambamurty. A.V.S.S. 2006, **A Text book of Algae**, I. K. International Publishing House, Pvt. Ltd., New Delhi.
16. Sharma, P. D. 2012, **Microbiology and Plant Pathology**, Rastogi Publication Pvt Ltd., Meerut, India.
17. Singh, R. P. 2007. **Microbial Taxonomy and Culture Techniques**, Kalyani Publication, New Delhi.
18. Smith .G. M. 1996. **Cryptogamic Botany Volume I**, Tata Mc Graw Hill, New Delhi.
19. Sundar Rajan. S. 2010. **College Botany Volume I**, Himalaya Publications, Mumbai.
20. Vashishta, B.R. Sinha, A.K. and Singh, V. P. 1991. **Algae**, S. Chand and Company, Pvt. Ltd., New Delhi.

Web Sites

- <http://www.phycology.net/>
- <http://www.algaebase.org/>

II SEMESTER

PAPER II: DIVERSITY OF NON-VASCULAR PLANTS – PART - II MYCOLOGY, PLANT PATHOLOGY, BRYOPHYTES AND PLANT ANATOMY

52 hrs

UNIT I: MYCOLOGY

13hrs

Introduction: General characters, occurrence, thallus organisation, reproduction and classification.
Structure, reproduction and life history of *Albugo*, *Peziza*, *Puccinia* and *Cercospora*.
Economic importance: Role of fungi in Medicine, Agriculture and Industry
Lichens: General account, Structure and reproduction. Ecological and Economic importance.
Mycorrhiza: General account
Saccharomyces - A model genetic organism.

UNIT II: PLANT PATHOLOGY

13 hrs

General account of symptoms, pathogen etiology, mode of Infection.
Management of fungal diseases: Koleroga, Coffee rust, Grain smut of Sorghum, Blast disease of Rice, Red rot of Sugarcane.
A brief account of Biopesticides: Neem, *Trichoderma* and *Bacillus thuerngiensis*

UNIT III: BRYOPHYTA

13 hrs

General characters. Study of distribution, structure, reproduction, classification and alternation of generation in *Marchantia*, *Anthoceros* and *Funaria*

UNIT IV: PLANT ANATOMY

13 hrs

Meristematic Tissues : Structure, function, classification, Organisation of Apical Meristems: Tunica-carpus theory and Histogen theory.
Secretary Cells and Tissues: Structure, Classification and significance.
Simple and permanent tissues
Vascular tissues: A brief account
Secondary growth: Dicot stem.
Anomalous Secondary growth: A general account (*Dracaena* and *Boerhaavia*)

PRACTICAL PAPER – II

DIVERSITY OF NON-VASCULAR PLANTS MYCOLOGY, PLANT PATHOLOGY, BRYOPHYTES AND PLANT ANATOMY

Total units - 13 Units

- | | | |
|------|---|----------------|
| I. | Identification and classification of fungi members included in the theory | 3 Units |
| II. | Demonstration of mushroom cultivation Study of lichens,
Study of Mycorrhiza | 2 Units |
| III. | Study of plant diseases included in the theory | 2 Units |
| IV. | Study of forms of Bryophytes included in the theory | 3 units |
| V. | Normal and Anomalous secondary growth in Stem ex. <i>Tridax</i> ,
<i>Dracaena</i> stem and <i>Boerhaavia</i> stem. | 2 Units |
| VI. | Field visit to study pathogen and host interaction | 1 Units |
| VII. | Report of Field visit: Project report of mushroom cultivation /
Application of Bio fertilizers | |

PRACTICAL QUESTION PAPER - II

DIVERSITY OF NON-VASCULAR PLANTS MYCOLOGY, PLANT PATHOLOGY, BRYOPHYTES AND PLANT ANATOMY

Time: 3 hours

Max. Marks: 35

- | | | |
|----|---|---------------|
| 1. | Identify the specimens A, B & C with labelled diagrams and reasons | 3x3=9 |
| 2. | Prepare a temporary Safranin stained T.S of the material D Sketch, label and Identify with reasons, leave the preparation for evaluation | 4 |
| 3. | Write critical notes on E | 2 |
| 4. | Identify the Slides F,G,H & I with labelled diagrams and reasons | 4x3=12 |
| 5. | Record and submission. | 5+3=8 |

SCHEME OF VALUATION

1. Two specimens from Fungi and one from Bryophyta (Identification -1 mark, Labelled diagram with reasons 2 marks)
2. Any one of the following may be given-stem of *Tridax*, *Dracaena* or *Boerhaavia* (Staining and mounting- 2 marks, sketch and labelling- 1 mark, Identification with reasons- 1 mark)

3. One diseased plant/Lichens/Mycorrhiza (Identification-1 mark & critical points 1 mark)
4. Two from Bryophytes, One from Fungi and One from Anatomy (Identification & Classification -2 mark, labelled diagrams with reasons-2 marks)
5. Record & Submission: 3 Herbarium sheets from Plant pathology (marks 5+3)

REFERENCES

1. Alexopoulos, C. J. 1992. **An introduction to Mycology**, New Age International, New Delhi.
2. Alexopoulos, C. J and Mims, C. W. 1990. **Introductory Mycology, 5 ed.** Wiley Eastern Ltd., New Delhi.
3. Cutter, D.G. 1971. **Plant Anatomy-Part I & II**, Edward Arnold, London.
4. Fahn, A. 1985. **Plant Anatomy**, Pergamon Press, Headington Hill Hall, Oxford.
5. Jim Deacon, 2007, **Fungal Biology 4 ed.**, First Indian reprint, Blackwell publishing Ltd., India.
6. Katherine Easu, 1993. **Anatomy 2 ed.**, Wiley Eastern Pvt., Ltd., New Delhi.
7. Pandey, B. P. 2001. **College Botany Vol. I: Algae, Fungi, Lichens, Bacteria, Viruses, Plant Pathology, Industrial Microbiology and Bryophyta**. S. Chand and Company Pvt. Ltd., New Delhi.
8. Parihar, N. S. 1970. **An Introduction to Embryophyta, Vol. I Bryophyta** Central Book Depot, Allahabad.
9. Rashid, A. 1998. **An Introduction to Bryophyta**. Vikas Publishing House Pvt. Ltd., New Delhi.
10. Sambamurthy, A. V. S. S. 2006. **A text book of Plant Pathology**, I. K. International Pvt. Ltd., New Delhi.
11. Sharma, O. P. 1992. **Textbook of Thallophyta**, Mc Graw Hill Publishing Co., New Delhi.
12. Singh, R. S 1978. **Plant Diseases 4 ed.**, Oxford and IBH, New Delhi.
13. Smith, G. M. 1994. **Cryptogamic Botany Vol II, 2 ed.**, Tata Mc Graw Hill, New Delhi.
14. Sporne, K. R. 1966. **Bryophytes**, 4 ed., B. I. Publishing Pvt., Ltd., India.
15. Thakur, A. K. and S. K. Bassi, 2008. **A Textbook of Botany: Diversity of Microbes and Cryptogams**. S Chand and Company Ltd., New Delhi.
16. Vashishta, B. R 1990. **Botany for degree students: Fungi**. S Chand and Company Ltd., New Delhi.
17. Vashishta. B. R. Sinha, A.K. and Adarsha Kumar. 2009. **Botany for Degree Students: Bryophyta**. S Chand and Company Ltd., New Delhi.
18. Watson, E. V. 1974. **The Structure and life of Bryophytes**, B. I Publication, New Delhi.

III SEMESTER

PAPER - III: PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND PHYTOGEOGRAPHY

		52 hrs
UNIT I: PTERIDOPHYTES		13 hrs
Introduction and general character with classification (As per Sporne). Study of diversity in morphology, anatomy and reproduction of the following groups in representative forms		
1. Psilotopsida – Eg: <i>Psilotum</i> .		
2. Lycopsidea – Eg: <i>Lycopodium</i> , <i>Selaginella</i> .		
3. Filicopsida – Eg: <i>Marsilea</i> .		
(Developmental stages not required) Brief account of Stellar evolution, heterosporous and seed habit.		
UNIT II: PALEOBOTANY		13 hrs
Contribution of Paleobotanist-Birbal Sahni. Outline of geological time scale with emphasis on Paleozoic and Mesozoic Era. Process of fossilization– Compression, Impression and Petrification. Type Study: <i>Rhynia</i> , <i>Cycadeoidea</i> and <i>Pentaxylon</i> .		
UNIT III: ENVIRONMENTAL BIOLOGY		13 hrs
Introduction and scope of Environmental Biology Ecological Factors: Climatic – Light, Temperature, Rainfall, Wind and Atmospheric humidity. Edaphic factors: Soil Formation, Soil Profile, Soil air, Soil Microorganisms Soil Erosion: Water and Wind. Soil Conservation: Biological – Contour farming, Mulching, Strip cropping, Terracing and Crop rotation. Mechanical – Basin Listing, Construction of dams Soil reclamations Biotic Factors – Positive and negative interactions. Ecosystem – Concept, Components, Study of marine, Grass land and Crop land Ecosystems. Ecological Succession – Hydrosere and Xerosere. Ecological Adaptations – Hydrophytes, Xerophytes, Halophytes, Epiphytes and Parasites.		
UNIT IV: ECOSYSTEM MANAGEMENT		13 hrs
Water Shed Management. Conservation of natural resources: – Over Exploitation of Natural resources – eg: Forest – Afforestation, Social Forestry and Agroforestry.		

Conservation of plant diversity:

In-situ and *Ex-situ* Conservation – National park, Sanctuaries and Bioreserves. Role of Seed Bank and Gene Bank.

PHYTOGEOGRAPHY

Phytogeographical regions of India, Vegetational types of Karnataka.

PRACTICAL PAPER– III

**PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND
PHYTOGEOGRAPHY**

Total Units – 13

- | | |
|---|----------------|
| 1. Identification and Classification of Pteridophytes (examples studied in theory) | 4 units |
| 2. Paleobotany – Study of specimens and slides (fossil material/slide) | 1 unit |
| 3. Ecological Adaptations – Study of one example for each adaptation | 2 units |
| 4. Estimation of chloride and dissolved oxygen content in the given sample | 2 units |
| 5. Study of Quadrat method in Ecology and studying soil sample and analysis of soil sample for structure(texture) p ^H etc. | 3 units |
| 6. Marking of vegetation types of Karnataka on Karnataka map and Phytogeographical areas of India | 1 unit |
| 7. Record & submissions: Submission of 3 slides of free hand sections (Pteridophytes / Ecological Specimens) | |

PRACTICAL QUESTION PAPER–III

**PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND
PHYTOGEOGRAPHY**

Time : 3 hours

Max Marks : 35

- | | | |
|---|------------------|----------------------------------|
| 1. Identify and classify specimen A & B giving reasons. | 2 x 3 = 6 | Identify and classify specimen A |
| 2. Identify the slides C, D, E with reasons and diagrams. | 3 x 3 = 9 | Identify the slides C, D, E with |
| 3. Comment on slide/specimen/photocopy/photograph of F. | 3 | |
| 4. Identify and comment on Ecological adaptation of G. and H (vegetation pattern of Karnataka). | 2x2 ½ = 5 | |

- | | |
|--|---------|
| 5. Estimate the Oxygen / Chloride content of the given sample I. | 4 |
| 6. Record and Submission. | 5+3 = 8 |

SCHEME OF VALUATION

1. Pteridophytes - (Identification & classification – 1 mark, Reasons – 2 marks).
2. Pteridophytes - (Identification – 1mark, Reasons – 1 mark, Diagram – 1 mark).
3. Fossil Material - (Identification – 1 mark,comment – 2 marks)
4. Specimen/Slide / Map - (Identification – 1 mark,comment – 1.5 marks)
5. Estimation – (Conducting experiment – 2 marks ,principle, procedure & result– 2 marks)
6. Record and Submission : 3 permanent slides of free hand sections of Pteridophytes and ecological specimens (5+3 = 8 marks).

REFERENCES

1. Agarwal, K.C. 2001.**Environmental Biology**,Nidi Publications Ltd., Bikaner, London.
2. Agashe, S.N. 1995. **Paleobotany, Plants of the past, their evolution, paleoenvironment and application in exploration of fossil fuels.** Oxford & IBH Publishing Co., Pvt.Ltd. New Delhi.
3. Andrews, H.N. 1961. **Studies in Paleobotany**, John Wiley, New York.
4. Asthana, D.K. and Meera Asthana 2013 **A Text book of Environmental Studies**, S. Chand and Company Pvt Ltd., New Delhi.
5. Cain, S.A. 1944. **Foundations of Geography**, Harper and Bros. New York.
6. Good, R.D. 1974. **The Geography of Flowering Plants. 3 edition.** Long Mans, London.
7. Odum, E. P. 1971.**Fundamentals of Plant Ecology.** W. B. Snderson Co., Philadelphia
8. Parihar N. S. 1977. **The Morphology of Pteridophytes.** Central Book Depot, Allahabad
9. Polumine, N. 1950. **Introduction to Plant Geography.** Longmans Publishers, London.
10. Rashid. A 1998. **An Introduction to Pteridophyta. 2 edition.,** Vikas Pub. House Pvt., Ltd., New Delhi
11. Sharma. P. D. 1993. **Ecology and Environment**, Rastogi Pub., New Delhi
12. Sporne, K. R. 1966. **The Morphology of Pteridophytes. The structure of ferns and allied plants.** Hutchinson University Library, London.
13. Trivedi, R.K. 1995. **Advances in Environmental Sciences and Technology**, Ashish Publishing House, New Delhi.
14. Valentine,D.H. 1972. **Taxonomy, Phytogeography and Evolution**, Academic Press, London
15. Vasishta, B. R., Sinha,A.K. and Anil Kumar. 2005. **Botany for Degree Students-Pteridophyta.** Multicolour Illustrative edition, S .Chand and Co., Pvt. Ltd., New Delhi.
16. Wagner, K.D.1998. **Environmental Management**,W.B. Saunders Co., Philadelphia.

IV SEMESTER

PAPER-IV: GYMNOSPERMS AND EMBRYOLOGY OF ANGIOSPERMS

52 hrs

UNIT I GYMNOSPERMS

13hrs

General characters and classification.

Economic importance of Gymnosperms with reference to wood, essential oils, resins and drugs.

Morphology and Anatomy of vegetative structures- Root, stem and leaf (primary and secondary growth), Reproductive structures (Developmental Stages not required) and life cycles of *Cycas*, *Pinus* and *Gnetum* (Evolutionary significance of *Gnetum*)

UNIT II EMBRYOLOGY OF ANGIOSPERMS – I

13 hrs

Indian botanists and their contributions to Embryology-
P.Maheshwari, BGL Swamy

Structure – Typical Angiosperm flower, Androecium and Gynoecium

Microsporangium-Development & structure of mature anther, Anther wall layers, Tapetum-types, structure& functions.Sporogenous tissue.

Microsporogenesis - Microspore mother cells (mmc) , cytokinesis, microspore tetrads

Abnormalities-Pollinia,compound pollengrains.

Microgametogenesis – Formation of vegetative and generative cells, structure of male gametophyte.

Abnormalities – Nemec phenomenon

UNIT III EMBRYOLOGY OF ANGIOSPERMS – II

13 hrs

Structure of Pistil – Placentation-definition and types.

Megasporangium – Structure of ovule - Integuments(endothelium), Micropyle (Obturator),Nucellus (crassinucellate and tenuinucellate conditions). Types of ovule- Anatropous, Orthotropous, Amphitropous, Circinotropous. Megasporogenesis.

Megagametogenesis – Types of development of Female gametophyte/embryosac- monosporic- *Polygonum* type, bisporic-*Allium* type, tetrasporic- *Fritillaria* type.Structure of mature embryosac-Structure and functions of synergids, egg, central cell and antipodals.

Double fertilization – pollen germination, growth of pollen tube through style (solid and hollow styles), entry of pollen tube into ovule (porogamy, mesogamy, chalazogamy), entry of pollen tube into the embryosac, pollen tube discharge,syngamy, triple fusion. Significance of double fertilization, post fertilization changes.

Endosperm – Types and its biological importance. Free nuclear (*Areca catechu*, *Cocos nucifera*), cellular (*Cucumis*), helobial types. Ruminant endosperm.

UNIT IV EMBRYOLOGY OF ANGIOSPERMS–III

13 hrs

Embryogenesis – Dicot (*Capsella bursa-pastoris*) and Monocot(*Najas*). Parthenocarpy. Polyembryony- definition and types.

Seed – Structure of Dicot and Monocot seed.

PALYNOLOGY- pollen morphology – pollen wall, aperture, shape, size and architecture, NPC system, pollen wall stratification. Applied Palynology – Aeropalynology, Mellissopalynology

EXPERIMENTAL EMBRYOLOGY - Definition, Totipotency, basic steps in plant tissue culture technique. Nutrient media- basic components , composition of MS & White's media.

Tissue culture techniques and their practical applications - Anther culture, Embryo culture, protoplast culture.

Embryology in relation to Taxonomy- egs. *Trapa*, *Exocarpus*

PRACTICAL - IV

GYMNOSPERMS AND EMBRYOLOGY OF ANGIOSPERMS

Total Units – 13

- | | |
|--|----------------|
| 1) Study of materials and permanent slides of Gymnosperms included in Theory | 5 units |
| 2) Permanent slides of microsporogenesis and male gametophyte | 1 unit |
| 3) Mounting of Pollen grains – <i>Grass</i> , <i>Mimosa</i> , Pollinia of <i>Calotropis</i> and Pollen germination (hanging drop method) | 1 unit |
| 4) Permanent slides of types of ovules, Megasporogenesis & embryosac development | 1 unit |
| 5) Permanent slides of types of placentation—Axile, Marginal, Parietal, basal types . Sectioning of ovary , for any two types of placentation. | 1 unit |
| 6) Mounting of embryo- <i>Tridax</i> and <i>Cyamopsis</i> . | 1 unit |
| 7) Mounting of endosperm - <i>Cucumis</i> . | 1 unit |
| 8) Mini project work in groups of 3-5 students, from the following list. | 2 units |
| a) Study of pollen morphology of different flowers with respect to shape, colour, | |
| b) pores etc. | |
| c) Pollen germination of different pollen grains and calculate percentage of germination. | |
| d) Calculating percentage of germination of one particular type of pollen grain collected from different localities/ under different conditions. | |
| e) Study of placentation of different flowers. | |
| f) Any other relevant study related to Gymnosperms / Embryology. | |

Mini project work may be carried out in groups of 3-5 students, supervised by the batch in charge . The mini project report, about 5-6 pages (type written), to be prepared in following format and certified by the teacher in charge and HOD to be submitted in practical examination.

- 1.Introduction
 - 2.Aim of study
 - 3.Materials& methodology
 - 4.Observation
 - 5.Conclusion,
- Copies to be submitted separately by individual members of the group..

PRACTICAL QUESTION PAPER–IV

GYMNOSPERMS AND EMBRYOLOGY OF ANGIOSPERMS

Time: 3 hours.

Max Marks: 35

- | | |
|---|---------------|
| 1. Identify and classify specimens A,B and C giving reasons - | 3X3= 9 |
| 2. Identify the slides D, E & F with reasons and labeled diagrams | 3X3=9 |
| 3. Mount the embryo/Endosperm of specimen G & comment. | 5 |
| 4. Mount the pollinia/perform pollen germination of specimen H & comment | 4 |
| 5. Record & submission | 5+3=8 |

SCHEME OF VALUATION

1. Gymnosperm materials- . *Cycas*, .*Pinus*,.*Gnetum* (Identification & classification- 1 mark, reasons-2 marks).
2. One Gymnosperm slide, one from T.S.of young anther/ mature anther, one from megasporogenesis/ stages of embryosac development, /placentation/ types of ovules included in theory.(Identification – 1 mark, Diagram-1 mark, reasons- 1 mark).
3. Endosperm /Embryo mounting (preparation- 3 marks, comment with diagram- 2 marks).
4. Pollinia / pollen germination (preparation-2 marks,comment with diagram- 2 marks)
5. Record & submission of mini project report (5 + 3 marks)

REFERENCES

1. Bhatnagar, S.P. and Moitra, A. **Gymnosperms**, New Age Publications, New Delhi
2. Bhojuwani, S. S. and Bhatnagar, S. P 1979. **The Embryology of Angiosperms**, Vikas Pub, New Delhi.
3. Chopra,G.L. and Verma,V.1988.**Gymnosperms**. Pradeep Publications, Jalandar, India.

4. Coulter and Chamberline, 1964. **Morphology of Gymnosperms**, Central Book Depot. New Delhi.
5. Davis, G.L.1966. **Systemic Embryology of Angiosperms**. John Wiley & Sons Inc, New York.
6. Johansen,D.A.1950. **Plant Embryogeny** , Chronica Botanica Co., Waitham, Mass.
7. Johri, B. M 1984. **Embryology of Angiosperms**. Springer – ver lag,Berlin.
8. Maheshwari, P. 1950. **An Introduction to Embryology of Angiosperms**. Tata Mc Graw Hill, New York.
9. Maheshwari, P.1963. **Recent Advances in Embryology**, Intl.Soc.Pl. Morphol.,New York.
10. Pullaiah, T., Lakshminarayana, K. and Hanumantha Rao, K. 2001. **Text Book of Embryology of Angiosperms**, Regency Publications, New Delhi.
11. Raghavan, V.1979. **Experimental Embryogenesis of Vascular Plants**, Cambridge University Press, Cambridge, U.K.
12. Sinnott, E.W. 1960. **Plant Morphogenesis**. McGraw Hill Book Company,INC,NEW York.
13. Sporne, K. R 1974. **The Morphology of Gymnosperms**. Hutchinson & Co., London
14. Swamy B.G.L. and Krishnamurthy K. V, 1980. **From flower to fruit: embryology of flowering plants**. Tata Mc Grew- Hill Pub Co. New York.
15. Vashista, B. R. 1990 . **Gymnosperms**. S Chand & Co., Pvt. Ltd., New Delhi

V SEMESTER

PAPER-V: TAXONOMY AND ECONOMIC BOTANY

39hrs

UNIT: I CLASICAL TAXONOMY

13 hrs

Aim and Scope of taxonomy, Brief History, Broad outline of classification proposed by Bentham & Hooker, Engler & Prantl and their relative merits and demerits. Species concept: Taxonomic hierarchy, species, genus and family.

Biosystematics: Plant nomenclature, Binomial system, ICBN- rules for nomenclature. Taxonomic Tools, Herbarium and its techniques, Floras and their importance, Botanical gardens and their importance (one state level, one national level & one international level). (Examples: State: Lalbagh, National: Indian Botanical garden Sibpur, Calcutta, International: Royal Botanical garden, Kew, England). Chemotaxonomy, Cytotaxonomy, Numerical taxonomy & application of computer.

UNIT: II TAXONOMY – I

13hrs

Taxonomic studies of following families, according to Engler & Prantl system of classification and their economic importance

Monocotyledoneae Families: Poaceae, Arecaceae Musaceae, and rchidaceae

Dicotyledoneae Families:

Archichlamydeae- Magnoliaceae, Annonaceae, Brassicaceae, Rutaceae, Leguminosae (Subfamilies: Papilionatae, Caesalpinioideae and Mimosoideae) Rosaceae & Euphorbiaceae.

UNIT: III TAXONOMY – II AND ECONOMIC BOTANY

13hrs

Metachlamydeae - Cucurbitaceae, Apiaceae Rubiaceae, Asteraceae, Asclepiadaceae, Acanthaceae & Lamiaceae.

Ethnobotany: A general account.

ECONOMIC BOTANY: Study of the following plants with Botanical names, Family, part used, and economic uses.

Edible oils:	Groundnut, Coconut & Sesamum
Sugar and Starch:	Sugarcane, Beetroot, Potato & Tapioca
Fibers:	Cotton, Jute & Coir
Paper & Pulp:	Bamboo & Eucalyptus
Beverages:	Coffee, Tea & Cocoa

Spices:	Ginger, Cardamom, Clove, Cinnamon, Asafoetida, Turmeric Saffron & Nutmeg
Timber:	Teak & Rose wood
Medicinal & Aromatic:	Ashwagandha, Aloe vera, Indian Pennywort, Holy Basil, Amla, Periwinkle, Margosa tree, Patchouli, Mint, & Lavender

PRACTICAL PAPER – V

TAXONOMY AND ECONOMIC BOTANY

Total Units: 13

- | | |
|---|----------------|
| 1. Morphology of Angiosperms – Vegetative Structure and modifications of root, & leaf. | 1 Unit |
| 2. Morphology of Angiosperms – Inflorescence and flower | 1 Unit |
| 3. Morphology of Angiosperms– Fruits (Simple, aggregate & multiple) | 1 Unit |
| 4. Methods of identification of plants with Technical terms. | 1 Unit |
| 5. Study of taxonomic characters of families included in theory (Minimum one genus from each family) | 6 Units |
| 6. Study of economically important plants covered in theory to identify with Botanical names, families, parts used and Economic uses. | 2Units |
| 7. Herbarium techniques. | 1 Unit |
| 8. Study of local flora by arranging local collection trips. | |
| 9. Record & Submission of 6 Herbaria with field notes of plants included in theory. | |

PRACTICAL QUESTION PAPER- V

TAXONOMY AND ECONOMIC BOTANY

Time: 3 hrs

Max marks: 35

- | | |
|---|---------------|
| 1. Assign the specimens A, B & C to their respective families giving diagnostic features. | 3×3= 9 |
| 2. Describe D in technical terms; draw the floral diagram with floral formula. | 6 |
| 3. Identify the specimen E, F, G, H, I & J with their morphological, Biological & Economic importance. | 6x2=12 |
| 4. Record and Submission. (Herbaria with field notes) | 5+3=8 |

SCHEME OF VALUATION

1. One Archichlamydeae, one Metachlamydeae, one Monocot (Identification ½ mark, Classification 1 mark, Diagnostic features 1½ mark)
2. Dicot plant (Technical detail 2 marks, floral diagram 2 marks, floral formula 2 marks)
3. Root/ Stem/ Leaf modification/ Inflorescence/ Fruit and/ Economic Importance. (Identification ½ mark, diagram ½ mark, description 1 mark, for economic importance, identification with family 1 mark, part use ½ mark economic uses ½ mark)
4. Record- 5 marks.
5. Submission of **Six** herbaria with field notes of family's studies, ½ marks each-3 marks

REFERENCES

1. Bierhorst, D .W. 1971. **Morphology of vascular Plants**. Macmillan, New York.
2. Chandel, K.P.S, Shukla,G and Sharma,N. 1996. **Biodiversity in Medicinal and Aromatic plants in India: Conservation and Utilization**, NBPGR, New Delhi.
3. Cronquist A. 1981. **An Integrated System of Classification of Flowering Plants**. Columbia University Press, New York.
4. Cronquist, A. 1988. **The Evolution and Classification of Flowering Plants**. Second Edn.,New York Botanical Garden, New York.
5. Dutta. S.C.1988. **Systematic Botany** Wiley Easter, New Delhi.
6. Ernest M. Gifford, A S. Foster.1989. **Morphology and evolution of vascular plants**, W.H. Freeman and Co., New York
7. Gamble. J.S. 1986. **Flora of Presidency of Madras**. Reprint - Bishen Singh and Mahendra Pal Singh, Deharadoun
8. Heywood,V.H.and Moore,D.M. 1984. **Current concepts in Plant Taxonomy**, Academic press, London
9. Hutchinson. J.1973.**The Families of Flowering Plants 3 edition**. Oxford University Press, Oxford.
10. Kocchar, S.L.1998. **Economic Botany of the Tropics.2 edition**. Mac millan IndiaLtd., Deihhi.
11. Lawrence G.H.M,1951. **Taxonomy of Vascular plants**, Oxford & IBH publication, New Delhi.
12. Naik ,V.K.1984. **Principles and trends in the taxonomy of angiosperms**. Tata McGraw-Hill Co. Ltd., New Delhi.
13. Pandey, B.P.2014.**Economic Botany**,S.Chand and Company Pvt.ltd., New Delhi.
14. Pandey and Misra 2008. **Taxonomy of Angiosperms**: Ane Books Pvt Ltd,New Delhi
15. Pullaiah, T. 1998. **Taxonomy of Angiosperms**. Regency Publications, New Delhi.
16. Radford,A.E.,Dickinson W.C., Massey,J.R. and Ben.C.R. 1974. **Vascular Plant Systematics**, Harper and Row, New York.
17. Sambamurthy. A.V.S.S.2005.**Taxonomy of Angiosperms**, IK International publishers, New Delhi

18. Sharma. O.P.1996. **Hill's Economic Botany** (Late Dr. A.F.Hill adapted by P O Sharma). Tata McGraw Hill Co., Ltd., New Delhi.
19. Singh, S.K and Seema Srivastava, 2009. **Taxonomy of Angiosperms:** For B.Sc. and M.Sc. Students of Indian Universities. Campus Books International Publishers, New Delhi.
20. Stebbins, 1974. **Flowering plants – Evolution above the species level**, Arnold press. London.

V SEMESTER

PAPER VI: MOLECULAR BIOLOGY, GENETIC ENGINEERING, BIOTECHNOLOGY AND PLANT PHYSIOLOGY

		39 hrs
UNIT I	MOLECULAR BIOLOGY	13 hrs
	<p>Introduction, Discovery, Chemical nature & replication of genetic material, genetic code, non genetic RNA, Biosynthesis of proteins, Regulation of gene action in prokaryotes (Lac operon concept only).</p> <p>GENETIC ENGINEERING & BIOTECHNOLOGY: Steps in Recombinant DNA technology, Genomic libraries, application of genetic engineering technology in agriculture. A brief account on hazards & safe guards of genetic engineering technology with special reference to Bt Cotton. A brief account of Bioinformatics and its uses.</p>	
UNIT II	MICROBIAL BIOTECHNOLOGY	13 hrs
	<p>Uses of microbes in industry and agriculture fermentation – production of ethanol, production of antibiotics – Penicillin.</p> <p>PLANT PHYSIOLOGY- I – Water Relations: Importance of water, Diffusion, Osmosis, water potential, Osmotic Potential, Membrane and their Permeability. Absorption Of Water- Mechanisms of water absorptions, factors affecting rate of water absorption.</p> <p>Stress Physiology: Water stress, heat stress, salt stress and mechanisms of Plant response to water and related stress.</p>	
UNIT III	PLANT PHYSIOLOGY – II	13 hrs
	<p>Mechanism of ascent of Sap – Vital and physical force theories.</p> <p>Transpiration – Loss of water, Types, Mechanisms, Stomatal Dynamics. Stomatal mechanism, Significance, Factors affecting transpiration, anti - transpirants, Guttation.</p> <p>Mineral Nutrition In Plants - Major & Minor elements, their deficiency symptoms in plants.</p> <p>Phloem Transport- Transport of organic solutes. Path of transport, vein loading and unloading. Transcellular or streaming hypothesis, contractive protein hypothesis, mass flow hypothesis, Source – Sink concept.</p>	

PRACTICAL PAPER–VI

MOLECULAR BIOLOGY, GENETIC ENGINEERING, BIOTECHNOLOGY AND PLANT PHYSIOLOGY

Total Units – 13

- | | |
|--|----------------|
| 1. Qualitative Test for Starch, Protein, Reducing Sugars and Lipids. | 2 Units |
| 2. Determination of Osmotic potential of the cell sap by Plasmolytic method. | 1 Unit |
| 3. Determination of Stomatal Index. | 1 Unit |
| 4. Structures of Stomata in Hydrophytes, Mesophytes and Xerophytes. | 2 Units |
| 5. Streaming of Protoplasm to show Cyclosis. | 1 Unit |
| 6. Determination of pH of Plant Samples by using Indicators. | 1 Unit |
| 7. Study of Osmosis & Transpiration Experiments. | 3 Units |
| 8. Study of Phloem Transport by Ringing Experiment. | 2 Units |

PRACTICAL QUESTION PAPER–VI MOLECULAR BIOLOGY, GENETIC ENGINEERING, BIOTECHNOLOGY AND PLANT PHYSIOLOGY

Time 3 hours

Max. Marks 35

- | | |
|--|-----------------|
| 1. Conduct the biochemical test of sample A and B . | 3 x 3= 6 |
| 2. Determine the osmotic potential of the cell sap by plasmolytic method / stomatal index of material C | 8 |
| 3. Determine the pH of the given sample D . | 2 |
| 4. Set up and comment on the experiment E . | 6 |
| 5. Comment on experiment F and G . | 4+4 = 8 |
| 6. Record. | 5 |

SCHEME OF VALUATION

1. Samples – Starch, Protein, Reducing Sugar and Lipids (Positive Test - **1** mark, Negative Test – **2** marks).
2. Conducting the Experiment – **3** marks; Principle – **2** marks; Procedure – **1** mark; Result – **2** marks.
3. Extract from Root, Stem, Leaves of a Plant to be given (Determination of pH – **1** mark, Comment – **1** mark).
4. Experiments of E: a. Potato Osmoscope.
b. Thistle Funnel experiment.
c. Farmer’s Potometer.
d. Ganongs Potometer.

(Requirements – 1 mark, Principle – 1 mark, Procedure & Conducting Experiment – 3 marks, Result – 1 mark)

5. Experiments of **F & G**:
- Streaming of Protoplasm (Cyclosis).
 - Balsam Plant experiment.
 - Bell Jar experiment.
 - Transpiration Pull.
 - Mass Flow Hypothesis.
 - Ringing Experiment.
- (Identification – 1 mark, Comment – 3)

6. Record 5 marks.

REFERENCES

- Buchanan, B. B, Gruissem, W. and Jones, R. I 2004. **Biochemistry and Molecular Biology of Plants**. I. K. International Pvt. Ltd., New Delhi.
- Dey and Harborne, J. B. (eds.) 1977. **Plant Biochemistry**. Academic Press, New York.
- Dubey, R. C. 2014. **Advanced Biotechnology**, S. Chand & Company Pvt. Ltd., New Delhi.
- Hall, D. O. and Rao, K. K. 1999. **Photosynthesis**. 6 edition, published in association with the Institute of Biology. Cambridge University Press. Cambridge, U.K.
- Harborne, T. C 1981. **Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis**. Chapman and Hall, London.
- Lodish, Berk, Matsudaira, Kaiser, Kriega, Scott. Zipursky Darnell, 2004. **Molecular cell Biology Fifth Edition**, W. H. Freeman and company, New York.
- Moore, T. C. 1989. **Biochemistry and Physiology of Plant Hormones**. 2 edition. Springer – Verlag, New York.
- Moore, T. C. 1974. **Research Experiences in Plant Physiology: A Laboratory Manual**, Springer. Verlag, Berlin.
- Peter Snustad, D and Michael. J. Simmons 2006. **Principles of Genetics**. 4 edition. Waley and Sons – INC., New York.
- Plummer, D. T. 1988. **An Introduction to Practical Biochemistry**. Tata Mc Graw – Hill Pub. Co., Ltd., New Delhi.
- Ramawat, K. G and Shaily Goyal, 2010. **Molecular Biology and Biotechnology**, S. Chand and Company Pvt. Ltd., New Delhi
- Singhal, G. S. Renger. G. Sporty S. K., Irrang, K. D and Govindjee. 1999 **Concepts in Photobiology, Photosynthesis and Photo morphogenesis**. Narosa Publishing House, New Delhi.

13. Stumpf, P. K. and Conn, E. E. (eds). 1988. **The Biochemistry of Plants – A Comprehensive treatise**. Academic Press. New York.
14. Taiz L & Zeiger E. 1998. **Plant Physiology. 2 edition**. Sinauer Associates, Inc., Publishers, Massachusetts, USA.
15. Taiz, I., & Zeiger, E 2003. **Plant Physiology, 3 Edition**. Panima Publishing Corporation, New Delhi/ Bangalore
16. Thomas, B. and Vince – Prue, D. 1997. **Photoperiodism in Plants. 2 edition**. Academic Press, San Diego, USA.
17. Wilkins M. B (eds.) 1989. **Advanced Plant Physiology**. Pitman publishing Ltd., London
18. Wilson, K and Goulding, K. H. (eds.). 1986. **A Biologists Guide to Principles and Techniques of Practical Biochemistry**. Edward Arnold, London, UK.

VI SEMESTER

PAPER–VII: CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

UNIT 1	CELL & CHROMOSOME BIOLOGY	39 hrs
	Cell as a fundamental unit of life and organism. Structure of eukaryotic chromosome; centromere, kinetochore and telomere. Nucleosome and its importance in the organisation of eukaryotic chromosome. Types of Chromosomes; biarmed and holocentric types. Cell Division - Phases, mitotic apparatus, cytokinesis, mitotic inhibitors, significance of mitosis; Meiosis- phases of meiotic cycle cytological proof of crossing over, synaptonemal complex. Brief study on Apoptosis (PCD).	13 hrs
UNIT II	MENDELIAN GENETICS	13 hrs
	Biography of Mendel in brief: Mendel's experiments: Monohybrid cross – law of dominance, law of segregation, purity of gametes. Homozygous, heterozygous, phenotype, genotype, monohybrid test cross, Dihybrid cross-law of independent assortment, dihybrid test cross, incomplete dominance (<i>Mirabilis jalapa</i> , Snapdragon). Modification of Mendelian ratios: (With reference to plant examples). Interaction of genes epistasis (dominant & recessive); supplementary factors, complementary factors: Polygenic inheritance in Maize (Self Sterility in <i>Nicotiana</i>), Linkage & Crossing over (in Maize). SEX DETERMINATION: Chromosomal mechanism of sex determination methods. XX – XY, ZZ – ZW & XX – XO (Sex determination in <i>Melandrium</i>) and genetic problems related to topics.	
UNIT III	EVOLUTION	13 hrs
	Origin of life, theories of evolution, modern concepts of evolution, role of mutations in evolution, Gene duplication (2R hypothesis), Big Bang theory. Numerical changes in chromosome number, polyploidy and aneuploidy - trisomics and monosomics and Chromosomal aberrations. PLANT BREEDING Historical account and objectives of plant breeding. Vegetative propagation methods (underground plant parts and isolated plant parts - cutting, grafting, layering, gootee, clones) Hybridization (intergeneric and interspecific), maintenance of germplasm, pollen banks, quarantine methods.	

PRACTICAL PAPER – VII
CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

Total Units - 13	
1. Preparation of cytological stains - Aceto carmine & Aceto orcein.	1 Unit
2. Mitosis from <i>Allium</i> root tips—Aceto orcein.	3Units
3. Meiosis from <i>Allium</i> flower buds- Aceto carmine.	3Units
4. Karyotype and Idiogram : Camera Lucida drawing.	1 Unit
5. Permanent slides of Mitosis.	1Unit
6. Permanent slides of Meiosis.	1 Unit
7. Emasculation and bagging of the flower buds of available species.	1 Unit
8. Genetic problems.	2Units
9. Record and Submission- 6 Slides (3 Mitosis and 3 Meiosis.)	

PRACTICAL QUESTION PAPER- VII

CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

Time: 3 hours

Max Marks: 35

1. Prepare a temporary mitotic, slide from material A identify the stage with diagram.	6
2. Prepare a temporary meiotic slide from material B identify the stage with diagram.	6
3. Identify and comment on C along with a sketch (only Karyotype).	4
4. Identify and comment on slides D and E with suitable sketches	3+3=6
5. Solve the Genetic Problem F	5
6. Record and Submission	5+3=8

Scheme of Valuation

1. Preparation- 4 marks, identification of stage - 1 mark and diagram 1 mark
2. Preparation - 4 marks, identification of stage - 1 mark and diagram 1 mark
3. Karyotype - slide or sketch, identification-1 mark, diagram- 1 mark, comment- 2 marks

4. Slides from meiosis and mitosis identification **0.5** mark, sketch **0.5** mark and comment **2** marks.
5. Genetic problems from
 - i. Dihybrid cross and test cross
 - ii. Incomplete dominance
 - iii. Complementary factors
 - iv. Supplementary factors
 - v. Epistasis - **5** marks
6.
 - i. Record - **5** marks
 - ii. 3 Mitotic and 3 Meiotic permanent slides ½ mark each - **3** marks

REFERENCES

1. Benjamine A. 2012, **Genetics- conceptual approach 4 edition**. W.H. Freeman and company, New york.
2. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter 2007, **Molecular Biology of the Cell: 5 edition**. Garland Science, 1526 illustrations. Package with Media DVD.
3. Chaudhari, H.K. 1983. **Elementary Principles of Plant Breeding**, TMH publishers Co., New Delhi
4. De Robertis E.D.P. and De Robertis, E.M.FJr, 2002. **Cell and Molecular Biology**, USA cippocott,
5. Gardener E.J. and Sanstad D.P. 1984. **Principles of Genetics**, John wiley Publishing Co., New Delhi
6. Goodenough, U. 1990. **Genetics**, 3rd edn., Saunders College Publishers, New York.
7. Gupta. p.k. 1994, **Genetics**, Rastogi publications, New Delhi.
8. Jain J, Sanjayjain, I and Nitin jain, 2005. **Fundamentals of Biochemistry**, S.Chand & company Pvt Ltd., New Delhi.
9. Jha, A. P. 1993, **Genes and Evolution**. Mac Millan India Ltd., New Delhi.
10. John Ringo, 2004. **Fundamental genetics**, India Cambridge univ., New Delhi
11. Mahesh.S. 2008. **Plant Molecular Biotechnology**, New age Int. Publ, New Delhi,
12. Nelson D, I and Cox, M. M. 1996. **Principles of Biochemistry**. Macmillan worth Publications, New Delhi
13. Sadhu M.K. 1996. **Plant propagation**, New age international publishers, New Delhi.
14. Sharma, J.R. 1994. **Principles and Practice of Plant Breeding**, Tata McGraw-Hill Publishers, New Delhi
15. Shukla R.S. and P.S. Chandel, 2004. **Cytogenetics, Evolution and Plant Breeding** S.Chand and company Pvt Ltd., New Delhi

16. Shukla.R.S. and P.S.Chandel,2005,**Cytogenetics, Evolution& Plant Breeding**
S.Chand & co, New Delhi
17. Sinnot, E.W., Dunn,.L.C. &Dobzonsky,T.1958. **Principles of Genetics**. Tata
Mc Graw Hill, NewYork.
18. Strickberger, M.W.2002.**Evolution**.Jones and Barlett Publishers,Sudbury.

- [http://www/desica/de/plantbreeding/](http://www.desica/de/plantbreeding/)
- <http://www/bilogyariozona.edu/mendeliangenetics/hm/>

VI SEMESTER
PAPER –VIII: PLANT PHYSIOLOGY – III

39 hrs

UNIT I ENZYMES

13 hrs

Nomenclature, classification, chemical composition, prosthetic groups, coenzymes, cofactors, vitamins, properties of enzymes, mechanism of enzyme action, enzyme kinetics, factors affecting enzyme activity, Inhibition of enzyme action (Competitive, Non Competitive, feedback), Allosteric enzyme.

Nitrogen Metabolism:

Sources of nitrogen, Nitrogen fixation, *nif* genes in relation to symbiotic fixation in *Rhizobium*. Synthesis of amino acids and Nitrogen cycle.

UNIT II BIOENERGETICS

13hrs

Photosynthesis – Introduction, ultra structure of the chloroplast, photosynthetic apparatus, principle of light absorption, Emerson's enhancement effect, photosystems I & II, Light reaction – Hill reaction, photophosphorylation (cyclic, non-cyclic), carbon reactions (Calvin Cycle, C₄ – Pathway, CAM), Factors affecting the process.

Photorespiration – Organelles involved, mechanisms and significance.

Respiration- Introduction, mechanism of aerobic respiration – glycolysis, TCA cycle, ETS and oxidative phosphorylation, mechanism of anaerobic respiration (alcoholic fermentation and lactic acid fermentation), Respiratory Quotient and its significance, factors affecting respiration.

UNIT III PLANT GROWTH AND GROWTH REGULATORS

13hrs

Definitions of growth, Kinetics, Factors affecting growth, Phytohormones, Metabolism, Physiological effects, mode of action of auxins, gibberellins, cytokinins, ethylene and ABA. Applications of these hormones in agriculture and horticulture.

Plant movements – A brief account on the classification and types of movements.

Photobiology – A brief account of dormancy, Photoperiodism, phytochrome and its role, Florigen concept, Vernalization,

Defence mechanisms – A brief account of Secondary metabolites (Phenolics, Flavonoids and alkaloids) and their role in plant defence.

PRACTICAL PAPER – VIII
PLANT PHYSIOLOGY – III

Total Units : 13

- | | |
|---|---------------|
| 1. Separation of Photosynthetic pigments by paper chromatography and measurement of Rf Values. | 1 unit |
| 2. Determination of rate of photosynthesis at different wavelengths of light. | 1 unit |
| 3. Determination of rate of photosynthesis at different concentrations of CO ₂ | 1 unit |
| 4. Estimation of Ascorbic acid content in a plant sample. | 1 unit |
| 5. Determination of RQ of carbohydrates, fats and proteins. | 1 unit |
| 6. Study of geotropism, phototropism and hydrotropism. | 2 unit |
| 7. Evolution of O ₂ during photosynthesis. | 1 unit |
| 8. Evolution of CO ₂ during respiration. | 1 unit |
| 9. Kuhne's fermentation vessel. | 1 unit |
| 10. Moll's half leaf Experiment. | 1 unit |
| 11. Evolution of heat during respiration | 1 unit |
| 12. Determination of the rate of growth using Arc Auxanometer | 1 unit |
| 13. An industrial visit to study the manufacture of alcohol / antibiotics / enzymes.
Bioinformatics/ Molecular biological lab. | |

PRACTICAL QUESTION PAPER – VIII
PLANT PHYSIOLOGY-III

Time: 3hours

Max Marks: 35

- | | |
|--|-----------------------|
| 1. Separate the photosynthetic pigments from sample A by paper chromatography and measure their Rf values. | 8 marks |
| 2. Estimate the ascorbic acid content in the sample B. | 8 marks |
| 3. Set up and comment on experiment C. | 6 marks |
| 4. Identify and comment on physiological set up D&E. | 2x 2 ½ 5 marks |
| 5. Record and submission | 5+3 = 8 marks |

SCHEME OF VALUATION

1. A. Requirement-1 mark, principle- 2 marks, procedure and conducting the experiment- 3 marks, Rf values- 2 marks.
2. B. Requirements- 1 mark, principle- 2 marks, procedure and conducting the experiment- 3 marks, Result- 2 marks.
3. C. Identification-1 mark, set up- 2 marks, comments-2 marks, labelled Diagram-1 mark
4. D. Identification-½ mark, comments-1 mark, labelled diagram- 1 mark.

- E. Identification- ½ mark, comments-1 mark, labelled diagram- 1 mark.
5. Record and Submission of field report (hand written field report only) 5+3 marks

LIST OF EXPERIMENTS FOR C.

- i. Evolution of O₂ during photosynthesis.
- ii. Evolution of CO₂ during respiration.
- iii. Moll's half leaf Experiment.
- iv. Evolution of heat during respiration (Thermos flask Experiment)

LIST OF EXPERIMENTS FOR D&E.

- i. Photosynthesis at different wavelengths of light
- ii. Photosynthesis at different concentrations of CO₂
- iii. Respirometer experiment for RQ
- iv. Kuhne's fermentation vessel
- v. Hydrotropism
- vi. Phototropism
- vii. Geotropism
- viii. Arc Auxanometer

REFERENCES

1. Buchanan, B.B, Gruissem, W. and Jones, R.L.2004. **Biochemistry and Molecular Biology of plants**. I.K.International Pvt. Ltd., New Delhi,
2. Dey and Harborne, J.B. (eds.) 1997. **Plant Biochemistry**. Academic press, New York.
3. Hall (1980), **Photosynthesis. 4 edition** Atlas publishers, New Delhi
4. Hall, D.O. and Rao, K.K. 1999 **Photosynthesis. 6 edition**, published in association with the Institute of Biology, Cambridge University Press. Cambridge, U.K.
5. Harborne, T.C 1981 **Phytochemical Methods: A guide to Modern Techniques of Plant Analysis**. Chapman and Hall, London.
6. Hopkins, W.G. 1995. **Introduction to Plant Physiology**, John Wiley and Sons, New York.
7. Moore, T.C. 1989. **Biochemistry and Physiology of Plant Hormones. 2 edition** Springer-Verlag, New York, USA.
8. Moore, T.C.1974. **Research Experiences in Plant Physiology: A laboratory Manual**. Springer. Verlag, Berlin.

9. Muheyi, S and Ghosh, A.K. 2005 **Plant Physiology** New Central Book Agency (p) Ltd. 8/1 Chintamonu Das Lane, Kolkata 2009. India.
10. Plummer, D.T.1998. An Introduction to Practical **Biochemistry**. Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
11. Purohit, S.S.2009 **Biochemistry-Fundamentals and Applications**. Gobies (India)
12. Salisbury and Ross. 2005. **Plant Physiology**, Thomson Wads Worth.
13. Singhal G.S., Renger G., Sopory S.K., Irrang K.D. &Govindjee 1999. Concepts in **Photobiology: Photosynthesis & Photomorphogenesis**. Narosa Pub. House, New Delhi.
14. Stumpf, P.K. and Conn, E.E. (eds.) 1988. **The Biochemistry of Plants- A Comprehensive treatise**. Academic Press, New York.
15. Sunderajan, S. 1997. **College Botany Vol.III**, Himalaya Publications.
16. Taiz and Zeiger 2004. **Plant Physiology 3 edition**. Panima Publishing Corporation, New Delhi/Bangalore.
17. Taiz C and Zeiger E .1998 **Plant Physiology. 2 edition** Sinauer Associates, Inc, Publishers, Massachusetts, USA
18. Taiz. L. and Zeiger, E. 2003. **Plant Physiology. 3 edition**. Panima Publishing Corporation, New Delhi.
19. Thomas B. & Vince-Prue D. 1997. **Photoperiodism in plants. 2 edition**. Academic press, San Diego, USA.
20. Wilkins, M.B. (eds). 1989. **Advanced plant physiology**. Pitman Publishing Ltd., London
21. Wilkins,M .B. 1998. **Advanced physiology**, ELBS, Longman
22. Wilson, K and Goulding, K.H. (eds.) 1986. **A Biologist Guide to Principles and Techniques of Practical Biochemistry**. Edward Arnold, London, UK.

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ
ಜ್ಞಾನಭಾರತಿ, ಬೆಂಗಳೂರು - 560 056.

ಸಂಖ್ಯೆ : ಎಸಿಎ-2/ಎ3/ಸೆ.ಪ/ಯು.ಜಿ-ಪಿ.ಜಿ/ಪರಿಷ್ಕೃತ/ಹೊಸ. ಪ.ಕ್ರ/2010-11,

ದಿನಾಂಕ : 09.08.2010

ಅಧಿಸೂಚನೆ

ವಿಷಯ: ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವಿಜ್ಞಾನ ನಿಖಾಯಕ್ಕೆ ಸಂಬಂಧಪಟ್ಟ ಸ್ನಾತಕ ಮತ್ತು ಸ್ನಾತಕೋತ್ತರ ಪದವಿ ಕೋರ್ಸುಗಳ ಸೆಮಿಸ್ಟರ್/ವಾರ್ಷಿಕ ಪದ್ಧತಿಯ ಪರಿಷ್ಕೃತ / ಹೊಸ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಜಾರಿಗೊಳಿಸುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1. ದಿನಾಂಕ 06.01.2010 ಮತ್ತು 01.06.2010ರ ವಿಜ್ಞಾನ ನಿಖಾಯದ ಸಭೆಗಳ ನಿರ್ಣಯ.
2. ದಿನಾಂಕ 27.03.2010 ರಂದು ನಡೆದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆ ಹಾಗೂ ದಿನಾಂಕ 26.07.2010ರ ಮುಂದೂಡಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ನಿರ್ಣಯ

* * *

ದಿನಾಂಕ 27.03.2010 ರಂದು ನಡೆದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆ ಹಾಗೂ ದಿನಾಂಕ 26.07.2010ರ ಮುಂದೂಡಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆಗಳಲ್ಲಿ ಕೈಗೊಂಡ ನಿರ್ಣಯದನ್ವಯ ವಿಜ್ಞಾನ ನಿಖಾಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಈ ಕೆಳಕಂಡ ಸ್ನಾತಕ / ಸ್ನಾತಕೋತ್ತರ ಪದವಿ ಕೋರ್ಸುಗಳಲ್ಲಿ ಸೆಮಿಸ್ಟರ್ / ವಾರ್ಷಿಕ ಪದ್ಧತಿಯ ಪರಿಷ್ಕೃತ / ಹೊಸ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಅವುಗಳ ಮುಂದೆ ನಮೂದಿಸಿರುವಂತೆ ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯವು ಅಧಿಕೃತವಾಗಿ ಈ ಮೂಲಕ ಪ್ರಕಟಿಸಿದೆ.

ಕ್ರ.ಮ	ಕೋರ್ಸುಗಳ ವಿವರ	ಅನುಮೋದಿಸಿದ ಸೆಮಿಸ್ಟರ್‌ಗಳು	ಅನುಮೋದಿಸಿದ ಹೊಸ/ಪರಿಷ್ಕೃತ ಅಸ್ತಿತ್ವದಲ್ಲಿರುವ ಪಠ್ಯಕ್ರಮಗಳು	ಜಾರಿಗೊಳಿಸಲಾದ ಶೈಕ್ಷಣಿಕ ವರ್ಷ
1.	Four Years B.S., Course	I to IV Semester	New Course	2010-11
2.	B.Sc Physics	I to IV Semester	Revised	2011-12
3.	M.Sc Physics	I to IV Semester	Revised	
5.	B.Sc Mathematics	I to VI Semester	Revised	
6.	M.Sc Mathematics	I to IV Semester	Revised	
7.	M.Sc Mathematics	Annual System (Ist & IInd Year)	Revised	
7.	B.Sc Botany	I to VI Semester	Revised	
8.	M.Sc Botany	I to IV Semester	Revised	2009-10
9.	B.Sc Electronics	I to IV Semester	Revised	
10.	M.Sc Electronic Science	Revised Syllabus for one practical paper of M.Sc II Sem (EL-206P)	Revised Syllabus for one practical paper of M.Sc II Sem (EL-206P)	
11.	Bachelor of Computer Application	III to VI Semester	Revised	

ಆದೇಶದ ಮೇರೆಗೆ
RML
ಕುಲಸಚಿವರು 9/8
ಪು.

ಗೆ.

ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಸಂಬಂಧಿಸಿರುವ ವಿಜ್ಞಾನ ವಿಷಯವನ್ನು ಬೋಧಿಸುತ್ತಿರುವ ಎಲ್ಲಾ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳು ಮೇಲ್ಕಂಡ ಕ್ರಮಸಂಖ್ಯೆ 2 ರಿಂದ 11 ರವರೆಗೆ ಕೋರ್ಸುಗಳ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ವಿದ್ಯಾಕಾರ್ಯಶಾಖೆ-2 ರಿಂದ ಒಂದು ಪತ್ರದ ಮುಖೇನ ಪಡೆಯಬಹುದಾಗಿದೆ.

ಪು.ತಿ.ನೂ 9.

09/12/10

ಪ್ರತಿಗಳು:

1. ಡೀನರು, ವಿಜ್ಞಾನ ನಿಖಾಯ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
2. ವಿಜ್ಞಾನ ನಿಖಾಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಮೇಲ್ಕಂಡ ಕ್ರಮಸಂಖ್ಯೆ 2 ರಿಂದ 11 ರವರೆಗಿನ ಕೋರ್ಸುಗಳ ವಿಭಾಗಗಳ ಮುಖ್ಯಸ್ಥರುಗಳು, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು - ಸಂಬಂಧಪಟ್ಟ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಗ್ರಂಥಾಲಯ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು Soft copy and Hard copy ಗಳನ್ನು ಗ್ರಂಥಪಾಲಕರಿಗೆ ಒದಗಿಸಲು ಕೋರಲಾಗಿದೆ.
3. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
4. ಸಹಾಯಕ ಕುಲಸಚಿವರು, ವಿದ್ಯಾಶಾಖೆ-1, 3 ಮತ್ತು 4, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
5. ಉಪಕುಲಸಚಿವರು ವಿದ್ಯಾಶಾಖೆ-2, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
6. ನಿರ್ದೇಶಕರು, ಅಂಚೆ ತೆರಪಿನ ಮತ್ತು ದೂರಶಿಕ್ಷಣ ನಿರ್ದೇಶನಾಲಯ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
7. ನಿರ್ದೇಶಕರು, ಪ್ರಸಾರಾಂಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು ಮುಂಬರುವ ಗೆಜೆಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು ಕೋರಿದೆ.
8. ಗ್ರಂಥಪಾಲಕರು, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ ಗ್ರಂಥಾಲಯ - ಸಂಬಂಧಪಟ್ಟ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು ಕೋರಿದೆ.
9. ಕುಲಪತಿಗಳ/ಕುಲಸಚಿವರ ಅಪ್ಪಕಾರ್ಯದರ್ಶಿಗಳಿಗೆ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
10. ಸಮನ್ವಯಾಧಿಕಾರಿಗಳು, ಸಂಖ್ಯಾಶಾಸ್ತ್ರ ವಿಭಾಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
11. ಕಛೇರಿ ಪ್ರತಿ.



BANGALORE UNIVERSITY
DEPARTMENT OF BOTANY

SYLLABUS

B.Sc. BOTANY
I - VI SEMESTER

2010

9/12/10

PROCEEDINGS OF THE MEETING OF BOS (UG) IN BOTANY

Venue : Department of Botany, Bangalore University, Jnana Bharathi Campus, Bangalore – 560 056.

Date : 16-02-2010

Time : 11.00 A.M.

Agenda : 1. Revision of the B.Sc. (Botany I to VI Semester)

Members Present

Signature

Dr. S. R. Ambika	- Chairperson	Sd/-
Dr. N. Sathyananda	- Member	Sd/-
Sri Muthe Gowda	- Member	Sd/-
Dr. H. Gokul	- Member	Sd/-
Mrs. Sujatha. N. S	- Member	Sd/-
Dr. Ravindra. V. Reshme	- Member	Sd/-
Dr. P. Anitha	- Member	Sd/-
Dr. K. R. Chandrashekar	- External Member	Sd/-
Dr. H. Niranjanmurthy	- External Member	Sd/-
Dr. Jenifer Lolita. C	- Co-opted internal Member	Sd/-
Sri T. K. Ghori	- Co-opted internal Member	Sd/-

The Chairperson welcomed the members to the meeting and thereafter he agenda was taken up for discussion.

I. Syllabus revision objectives:

1. To attract students towards basic Botany so as to inculcate in them the Botanical spirit as love and passion for plant life.
2. To provide training in various experimental methods and skills so as to stimulate interest in scientific research.
3. To expose the students to field studies and Botanical exploration so as to develop environmental awareness and social responsibility.
4. To enable them to take up competitive examinations.
5. To convert the syllabus to course credits to enable students to take up choice based course credits.

II. It was decided to make a frame work of the syllabus and to distribute it to different colleges to prepare and come up with a power point presentation before a workshop is conducted to discuss the same.

Semester I : Dr. Najma Bhanu, Alameen College

Semester II : Dr. P. Anitha, BMS College

Semester III : Dr. H. Gokul National College

Semester IV : Sri T.K. Ghori KLE College

Semester V :

Paper V : Dr. Muthe Gowda, V. V. Puram College.

Paper VI : Dr. Ravindra. V. Reshme, MES College

Semester IV :

Paper VII : Dr. Jenifer Lolita. C. MSCw

Paper VII : Dr. N. Satyananda. Vijaya College

III. The venue of the workshop: It was decided to conduct the workshop on 5th and 6th March 2010 at KLE College, Rajajinagar, Bangalore.

Frame work

Semester I : Dr. Najma Bhanu, Alameen College

Microbiology

Bacteria

Cyanobacteria

Phycology

Semester II : Dr. P. Anitha, BMS College

Mycology

Plant pathology

Bryophytes

Plant Anatomy

Semester III : Dr. H. Gokul, National College

Pteridophytes

Paleobotany

Environmental biology

Phytogeography

Semester IV : Sri T.K. Ghor, KLE College

Gymnosperms

Embryology

Semester :V

Paper V : Dr. Muthu Gowda, V. V. Puram College.

Taxonomy and Economic Botany

Biodiversity and Conservation

Paper VI : Dr. Ravindra. V. Reshme, MES College

Cytology

Genetics and plant breeding

Evolution

Semester IV :

Paper VII : Dr. Jenifer Lolita. C MSCW, Molecular Biology and Plant Biotechnology, Plant Physiology

Paper VII : Dr. N. Satyananda, Vijaya College, Plant Biochemistry

Resolution:

1. The internal members are authorized to coopt the subject experts of their choice for their respective papers.

The chairperson is also authorized to finalize the syllabus after the workshop in consultation with the internal BOS members.

Proceedings of the meeting of syllabus committee held on 17-3-2010

at K.L.E Society's S. Nijalingappa College

The syllabus committee met at K.L.E Society's S. Nijalingappa College on 17-3-2010 and discussed the revision of B.Sc. syllabus for papers II, IV, V and VI for the respective semesters. Those absent are informed to communicate their respective revised syllabus to the chairperson before 20-3-2010. The following members were present

Dr.M.C.Gayathri, Dept of Botany. Bangalore University

M.C. Gayathri
17.3.10

Dr. Rose Maria NMKRV College

Rose Maria

Dr. Prathibha Jyothi Nivas College,

K. Prathibha 17.3.10

Smt Prasanna Mount Carmel College

M. Prasanna 17/3/10

Prof.Gadag KLES Nijalingappa college

Gadag

Dr.Jenifer Lolita.C Maharani's Science college

Jenifer Lolita C

Smt. Sujatha. N.S. MLACW

Sujatha
17-3-10

Dr. P. Anitha BMS College

Anitha
17/3/10

Sri.T.K.Ghori KLES Nijalingappa college

T.K. Ghori
17/3

Smt. Manjula SJRC College

(Deputy GFGC
Hosakote)

Manjula
17.3.10

Dr.S.R. Ambika Chairperson Dept of Botany. Bangalore University

S.R. Ambika
17/3/10

Proceedings of the meeting of BOS (U.G.) in Botany held on 05.04.2010 in the Department of Botany, Bangalore University, Bangalore – 560 056

Members Present:

Dr. H. Gokul

Dr. Ravindra V. Reshme

Dr. Muthegowda

Dr. Sangameshwar

Dr. P. Anitha

Dr. Najma Banu

Dr. Jenifer Lolitha. C

Dr. S. R. Ambika

Signature

Sd/-

Sd/-

Sd/-

Sd/-

Sd/-

Sd/-

Sd/-

Sd/-

Members absent:

Dr. Satyananda

Dr. Niranjanmurthy. H

Dr. Chandrashekar

1. The Board discussed in length the B.Sc., Semester syllabus and finalized the syllabus for I & II semester.
2. Draft syllabi for I, II, III & IV semesters were prepared, read and ratified.
3. Connected practical papers were also prepared, read & ratified.
4. It was unanimously decided that **RTI Act** will be included in the syllabus of constitution of India paper of the II Semester B.Sc., (Refer Order No-KIC/8/ADM/2010 Dated: 17.02.2010).
5. The Chairperson, BoS is authorized to incorporate required addition & deletions in the B.Sc., Botany syllabus.

QUESTION PAPER FOMRAT

The question papers of Theory examinations to follow the pattern specified below:

Marks for each question	Number of question to be Answered	out of	Total marks
1	30	30	30
5	6	8	30
Total			60

BANGALORE UNIVERSITY B.Sc. Semester Examination

BOTANY

Paper

Time: 3 Hours

Max. Marks: 60

A. Answer all the following by **choosing** the correct choice

(30 x 1 = 30)

B. Write notes on any **FIVE** of the following

(6 x 5 = 30)

I SEMESTER
PAPER I- DIVERSITY OF NON-VASCULAR PLANTS
(INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA CYANOBACTERIA AND PHYCOLOGY)

UNIT I:	INTRODUCTION TO MICROBIOLOGY Scope of Microbiology, Contributions of scientists to the field of Microbiology (Anton Von Leeuwenhock, Louis Pasteur, Robert Koch, Alexander Flemming) Branches of Microbiology, Isolation of microbes from soil—Brief account of culture media, Serial dilution, Pour plate method and Colony characteristics of Bacteria and Fungi.	60 hrs 10 hrs
UNIT II:	STUDY OF VIRUSES A brief history of Virology -- (Adolf Mayer, Iwanowsky, Beijerinck, W.M Stanley, F. W. Twort), Characteristics of viruses, General structure-shape, size, protein coat, envelope, nucleic acids and carbohydrates. Outline classification of viruses. Viral diseases: Tomato leaf curl disease. Structure, replication and significance of: a) TMV b) HIV c) A brief account of Prions and Viroids	8 hrs
UNIT III	STUDY OF BACTERIA Introduction, Occurrence, size and shape, Classification based on shape, arrangement of cells and flagella, Ultrastructure of bacterial cell. Cell wall- structure, Chemical composition, Cytoplasm, Mesosome, Ribosomes, Flagella, Pili, Capsules, Nuclear material, and Endospores. A brief account of Plasmids - Definition, properties, and types, Structure and importance of Ti plasmid. Bacterial nutrition- Phototrophs and Chemotrophs. Reproduction-Binary fission and Genetic Recombination. Economic importance - Role of Bacteria in Agriculture, Medicine & Industry. Bacterial disease: Citrus canker disease General account of Mycoplasmas Sandal spike disease. Immunology – Brief account of immune systems, application of Immunotechniques in agriculture & industry, monoclonal anti bodies (ELISA, Hybridoma Techniques).	15 hrs
UNIT IV:	STUDY OF CYANOBACTERIA Introduction, General characters, Outlines of classification (Fritsch-1947), Thallus structure, Ultrastructure of cell, Photosynthesis, Reproduction, Economic importance of Cyanobacteria; SCP, Biofertilizers, role in water pollution. Type study: <i>Gloeocapsa</i> , <i>Anabaena</i> , <i>Scytonema</i>	7 hrs
UNIT V:	STUDY OF ALGAE Introduction, General characters, Outlines of classification (Fritsch-1947), Thallus structure, Pigmentation, Reproduction and Economic importance of algae in Industry, Agriculture and Medicine, Occurrence, Structure and Reproduction and Life cycles of <i>Chlamydomonas</i> , <i>Volvox</i> , <i>Oedogonium</i> , <i>Chara</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i>	20 hrs

References

1. Aneja, K.R. (1993) Experiments in Microbiology, Pathology and Tissue Culture, Vishwa Prakashan, New Delhi.
2. Basu, A.N. (1993) Essentials of plant viruses, vectors and Plant diseases, new age International, New Delhi.
3. Chopra, G.L. (1984) A text book of Algae, Rastogi publications.
4. Desikachar, T.V.(1959) Cyanophyta, ICAR, New Delhi.
5. Fritch, R.E (1977) Structure and reproduction of Algae, Cambridge University press.
6. Pandey B.P, 1979, 2001, College Botany Volume I, S. Chand & Company Ltd, New Delhi
7. Power, C. B. and Dagainwala, H.F(1982)
8. Pelzar (1963) Microbiology, Tata Mc Graw Hill, New Delhi.
9. Singh. V, Pande. P.C and Jain. D. K, 2008- 2009, Rastogi Publications, Meerut.
10. Smith GM(1978)&(1996) Cryptogamic Botany Volume I, Tata Mc Graw Hill, NewDelhi
11. Sundar Rajan,S.(1997)College Botany Volume I Himalaya Publications, Mumbai.
12. Singh, R.P.(2007), Microbial taxonomy and culture techniques. Kalyani publishers, New Delhi.
13. Vashishta, B. R. Sinha, A.K and Singh, V.P, (1991) Algae. S. Chand and Co. Ltd, New Delhi

SEMESTER I - PRACTICAL PAPER-I INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA CYANOBACTERIA AND PHYCOLOGY

Total units: 15

1. Study of instruments: Autoclave, Inoculation chamber, Hot air oven, Incubator and Inoculation loop
2. Sterilization of glass ware and media preparation (Nutrient Agar, Martin Rose Bengal Agar)
3. Isolation of Bacteria and Fungi from soil by pour plate method **04 units**
4. Colony characteristics of Bacteria and Fungi to identify the Colonies obtained **02 units**
(*Bacillus*, *Staphylococcus*, *E. coli*, *Penicillium*, *Aspergillus*, *Cladosporium*)
5. Study of Tomato leaf curl disease, Sandal spike disease & Citrus canker disease.
Gram's staining: a) *Rhizobium* from root nodules
b) *Lactobacillus* from curds
6. Measurement of cell concentration- Yeast cells / fungal spores using Hemocytometer, **02 units**
7. Type study of Cyanobacteria: *Gloeocapsa*, *Anabaena*, *Sytonema* **07 units**
8. Type study of Algae: *Chlamydomonas*, *Volvox*, *Oedogonium*, *Chara*, *Ectocarpus*, *Polysiphonia*

I - SEMESTER PRACTICAL QUESTION PAPER
INTRODUCTION TO MICROBIOLOGY, VIRUSES, BACTERIA CYANOBACTERIA AND
PHYCOLOGY

Time: 3 hrs.

Total marks 30

- | | | |
|-----------|---|------------|
| 1 | Identify the given specimens A, B & C with labelled diagrams and reasons. | 3x3=9marks |
| <hr/> | | |
| 2 | Describe the colony characteristics of the given colony D and tabulate your observations. ----- | 2marks |
| 3 | Prepare temporary slide of E, sketch, label and identify with reasons Leave the preparation for evaluation. ----- | 4marks |
| 4 | Stain the given material F by Gram's staining. Write the procedure and identify with reasons .Leave the preparation for evaluation. | |
| <p>OR</p> | | |
| | Calculate the population of fungal spores / Yeast cells in sample F using haemocytometer.----- | 4marks |
| 5 | Identify the slides G and H with labelled diagrams and with reasons ----- | 2x3=6marks |
| <hr/> | | |
| 6 | a) Record | 3marks |
| | b) Submission | 2marks |

SCHEME OF VALUATION

1. Three specimens A, B and C – One from Algae, One from Cyanobacteria and One Specimen of diseases / Herbarium. (Identification-1 mark, labelled diagram with reasons-2 marks)
2. Colony characters of the given colony 'D' - 2 marks.
3. Specimen from algae-mounting-2marks, Identification, sketch & reasons-2marks
4. Specimen F---Gram staining. (Staining-2 marks, Procedure & Result -2 mark)

OR

Calculation of fungal spores/ yeast using Haemo cytometer (Procedure-2marks, Calculations -2 marks)

5. Two permanent slides from Algae(Identification-1mark,sketch & reasons 2marks)
6. a) Record----- 3 marks
- b)Submission of 2 algae / cyanobacteria materials----- 2 marks

MODEL QUESTION PAPER

PAPER- I DIVERSITY OF NON - VASCULAR PLANTS – PART I

Time: 3 Hrs

Max marks : 60

I. Answer the following by choosing the correct choice: 1x30=30

1. Palmella stage in *Chlamydomonas* is helpful in
 - a) Protecting the alga against dessication
 - b) Bringing about gametic union
 - c) vegetative reproduction
 - d) accumulating mucilage
2. Who first isolated TMV in its crystalline form?
 - a) Adolf Mayer
 - b) Iwanowsky
 - c) Stanley W. M
 - d) Beijerinck
3. Heterocysts are not seen in
 - a) *Gloecapsa*
 - b) *Scytonema*
 - c) *Nostoc*
 - d) *Anabaena*
4. Cocci arranged in cubes with 8 or more cells
 - a) Tetrads
 - b) Diplococci
 - c) Streptococci
 - d) Sarcinae
5. The prokaryotic genetic system contains
 - a) Either DNA or histones
 - b) DNA and histones
 - c) Neither DNA nor histones
 - d) DNA but no histones
6. The cause of 'red snow' is
 - a) *Chlamydomonas nivalis*
 - b) *Volvox globator*
 - c) *Chlamydomonas coccifera*
 - d) *Nostoc muscarum*
7. One of the intresting features of the viruses is that they
 - a) Multiply only in the host cytoplasm
 - b) Occur only inside bacteria
 - c) Are Made up of proteins only
 - d) multiply only outside the host
8. The stoneworts belong to the order
 - a) Oedogoniales
 - b) Charales
 - c) Volvocales
 - d) Conjugales
9. The bacterial cell wall is composed of
 - a) Peptidoglycan
 - b) Suberin
 - c) Lignin
 - d) Cellulose
10. Agar-agar is obtained from
 - a) *Ectocarpus*
 - b) *Sargassum*
 - c) *Polysiphonia*
 - d) *Gelidium*
11. Root nodules with nitrogen fixing bacteria are present in
 - a) Cotton
 - b) Wheat
 - c) Mustard
 - d) Gram
12. The first bacteriologist
 - a) Pasteur
 - b) Jenner
 - c) Leuwenhock
 - d) Robert Koch

13. The seaweeds belong to
 a) Chlorophyceae
 b) Phacophyceae
 c) Bacillariophyceae
 d) Rhodophyceae
14. The mycoplasma contains
 a) Only DNA
 b) Both DNA and RNA
 c) Only RNA
 d) Neither DNA nor RNA
15. CFU is
 a) Cell Forming Unit
 b) Cluster Forming Unit
 c) Colony Forming Unit
 d) Cytoplasm Forming Unit
16. Scytonema reproduces by the formation of
 a) Hormogonia only
 b) Heterocysts and endospores
 c) Hormogonia and akinetes
 d) Hormogonia and heterocysts
17. The cystocarp of *Polysiphonia* is
 a) Haploid
 b) Triploid
 c) Diploid
 d) Polyploid
18. Pour plate method is used
 a) To isolate pure cultures
 b) To preserve pure cultures
 c) To isolate impure cultures
 d) To discard mixed cultures
19. A virus that can reproduce without killing its host is called
 a) Temperate virus
 b) Retroactive virus
 c) Lytic virus
 d) Virion
20. The nannandria in *Oedogonium* gives rise to
 a) Oogonia
 b) Zoospores
 c) Antheridia
 d) Endospores
21. Most brown algae live in
 a) Fresh water streams
 b) Cool coastal waters of oceans
 c) Fresh water lakes
 d) Warm coastal waters of oceans
22. The Plaque stage of *Volvox* consists of
 a) 2 cells
 b) 8 cells
 c) 4 cells
 d) 16 cells
23. Solutions of crystal violet, iodine & alcohol are used in a staining procedure known as
 a) Gram stain
 b) Geisma stain
 c) Acid fast stain
 d) Wright's stain
24. The common method of reproduction in bacteria is
 a) Budding
 b) Fragmentation
 c) Fission
 d) Hormogone formation
25. The globule of *Chara* consists of
 a) 4 shield cells
 b) 16 shield cells
 c) 8 shield cells
 d) 24 shield cells

26. A cyanobacteria also known as single cell protein is
 a) *Anabaena* c) *Spirulina*
 b) *Gelidium* d) *Chara*
27. Transfer of genetic material from one bacterium to another by virus is called
 a) Transformation c) Transduction
 b) Conjugation d) Propagation
28. One of the following characters found in bacteria is a plant character
 a) Presence of flagella c) Prokaryotic nucleus
 b) Rigid cell wall d) Heterotrophic nutrition
29. False branching is found in
 a) *Oscillatoria* c) *Nostoc*
 b) *Anabaena* d) *Scytonema*
30. The non motile male gamete in Rhodophyceae is called
 a) Monospore c) Carpospores
 b) Spermatium d) Tetraspore

II. Answer any six of the following: -

6x5=30

1. Describe pour plate method of isolation of microorganisms.
2. Give an account of asexual reproduction in *Volvox*.
3. Describe the structure and multiplication of TMV.
4. Give an account of contribution of Louis Pasteur to the development of Microbiology.
5. What are plasmids? List the types and properties.
6. With labelled diagrams explain thallus structure and branching in *Scytonema*.
7. Compare cell walls of Gram positive and Gram negative bacteria.
8. Give an account of economic importance of brown algae.
9. Describe the structure of nucleolus of *Chara*.

II SEMESTER
PAPER II – DIVERSITY OF NON – VASCULAR PLANTS
(MYCOLOGY, LICHENS, MYCORRHIZA, PLANT PATHOLOGY, BRYOPHYTES AND
PLANT ANATOMY)

		60 Hrs
UNIT I:	<p>Mycology : Introduction: General characters, occurrence, thallus organization, reproduction & classification. Structure, reproduction and life history of <i>Albugo</i>, <i>Penicillium</i>, <i>Puccinia</i> and <i>Alternaria</i> and economic importance : Role of fungi in medicine, agriculture and industry</p> <p>Lichens: General account, Structure and reproduction. Ecological and economic importance.</p> <p>Mycorrhiza: General account</p> <p><i>Saccharomyces</i> – A model genetic organism.</p>	20 hrs
UNIT II:	<p>Plant Pathology: General account of symptoms, pathogen, etiology, mode of infection and management of:</p> <p>Fungal diseases: Koleroga, Ergot of Bajra, Coffee rust, Grain smut of Sorghum, Blast disease of Rice, Red rot of Sugarcane & Tikka disease of Groundnut.</p> <p>A brief account of biopesticides: Neem, <i>Trichoderma</i> & <i>Bacillus thuringiensis</i>.</p>	10 hrs
UNIT III:	<p>Bryophyta: General characters, Type study of distribution, structure, reproduction, classification and alternation of generations in Bryophytes.</p> <p><i>Marchantia</i>, <i>Anthoceros</i> & <i>Funaria</i>.</p>	15 hrs
UNIT IV:	<p>Plant anatomy: Meristematic tissues – Structure, function, classification. Organization of Apical meristems : Tunica – Corpus theory and Histogen theory. Secretory cells and Tissues: Structure, classification and significance. Vascular tissues : A brief account</p> <p>Secondary growth : Origin and activity of Vascular cambium in dicot stem.</p> <p>Wood anatomy: A brief account and commercial application in paper and fibre industry etc. <u>Anomalous secondary growth</u> : A general account. (<i>Dracaena</i> & <i>Boerhaavia</i>)</p>	15 hrs

Practical II
DIVERSITY OF NON - VASCULAR PLANTS (MYCOLOGY, LICHENS, MYCORRHIZA,
PLANT PATHOLOGY, BRYOPHYTES & PLANT ANATOMY)

		Total units allotted: 15 Units
I	Identification and classification of fungal members included in the theory.	4 Units
II	Demonstration of mushroom cultivation	
III	Study of Lichens	
IV	Study of Mycorrhiza	3 Units
V	Study of Plant diseases included in the theory	2 Units
VI	Study of forms of Bryophytes included in the theory	3 Units
VII	Normal and anomalous secondary growth in stem Eg. <i>Tridax</i> , <i>Dracaena</i> stem and <i>Boerhaavia</i> stem.	3 Units
VIII	Field visit to study pathogen and host interaction.	
IX	Report of field visit + Project report of mushroom cultivation / Application of biofertilizers.	

REFERENCES

1. Alexopoulos J& W.M Charles(1988) *Introduction to Mycology* Wiley Eastern, NewDelhi.
2. Alexopoulos (1992) *An introduction to Mycology*, New Age International, New Delhi.
3. Chopra, G.L. *Bryophytes*, S. Chand and Co.
4. Mundkar, B.B. *Fungi-and Plant diseases*
5. Parihar, N.S. (1970) *An Introduction to Embryophyta. Vol. I Bryophyta* Central Book Depot. Allahabad.
6. Pandey, B.P. 2001, *College Botany Vol. I: Algae, Fungi, Lichens, Bacteria, Viruses, Plant Pathology, Industrial Microbiology and Bryophyta*. S. Chand and company Ltd, New Delhi.
7. Sporne, K.R (1966) *Bryophytes*, 4th Ed., B.I Publishing. Pvt. Ltd.
8. Sambamurthy, A.V.S.S. 2006. *A text book of Plant Pathology*. I.K. International Pvt. Ltd., New Delhi.
9. Sharma, O.P. 1992. *Textbook of Thallophyta*. Mcgraw Hill Publishing Co., New Delhi.
10. Thakur, A.K. and S.K.Bassi. 2008. *A Textbook of botany: Diversity of microbes and Cryptogams*. S. Chand and Company Ltd, New Delhi.
11. Vashishta, B.R. 1990. *Botany for degree students: Fungi*, S. Chand and Company Ltd, New Delhi.
12. Vashishta, B.R., A.K. Sinha and Adarsha Kumar. 2008. *Botany for Degree Students: Bryophyta*. S. Chand and Company Ltd, New Delhi.
13. Watson, E.V. 1974. *The structure & life of Bryophytes*, B.I. Publication, New Delhi.
14. Katherine Easu, (1993). *Anatomy* 2nd Ed. Wiley Eastern Pvt. Ltd. New Delhi.
15. Smith G.M.(1994) *Cryptogrammic Botany Vol II*, 2nd Ed, Tata Mc Graw Hill, NewDelhi
16. Singh, R.S. (1978) *Plant Diseases* 4th Ed. Oxford and IBH, New Delhi.
17. Jim Deacon (2007) *Fungal Biology*, 4th Ed, First Indian reprint Blackwell publishing

II Semester Practical Question Paper II (MYCOLOGY, LICHENS, MYCORRHIZA, PLANT PATHOLOGY, BRYOPHYTES AND PLANT ANATOMY)

Time : 3 Hours

Max Marks : 30

- | | | |
|---|---|-------|
| 1 | Identify the specimens A, B & C With labeled diagrams and reasons. | 3X3=9 |
| 2 | Prepare a temporary Safranin stained T.S of the material 'D'. Sketch, Label and Identify with reason, leave the preparation for evaluation. | 1X5=5 |
| 3 | Write critical notes on E | 1X2=2 |
| 4 | Identify the slides F,G & H with labeled diagrams and reasons | 3X3=9 |
| 5 | Class record and submissions | 3+2=5 |

Scheme of Valuation

- 1) Two specimens from fungi and one from Bryophyta (Identification – 1 Mar, Labelled diagram with reasons – 2 Marks)
- 2) Any one of the following may be given - Stem of *Tridax*, *Dracaena* or *Boerhaavia* stem, (Staining and Mounting – 3 Marks, Sketch and Labeling – 1 Mark, Identification with reasons – 1 Mark)
- 3) One diseased palnt / Lichens / Mycorrhiza (Identification – 1 Mark & Critical points – 1 Mark)
- 4) One from Bryophytes, One from Fungi and One from Anatomy (Identification – 1 Mark, Labelled diagrams with reasons – 2 Marks)
- 5) Class records & Submissions: 3 herbarium sheets from Plant pathology (Marks: 2+3)=5

Model Question Paper

Paper-II : Mycology, Lichens, Mycorrhiza, Plant Pathology, Bryophytes & Plant Anatomy

Time: 3 Hours

Max Marks= 60

I. Answer the following by choosing the correct choice

1x30=30

- 1) Facultative saprophyte is
 - a) Always parasite
 - b) Parasite but can be saprophyte
 - c) Saprophyte but acquires a parasitic mode
 - d) Always saprophyte
- 2) All heterotrophs require an environment which can provide
 - a) Organic compounds
 - b) Vitamin A
 - c) Ammonium salt
 - d) Nitrates in solution
- 3) Fungal hyphae penetrates hard cell walls of their hosts with the help of
 - a) Sugar exudates
 - b) Hormones
 - c) Enzymes
 - d) Sharp tips
- 4) Fungal hyphae get arranged in parallel manner to constitute
 - a) Trama
 - b) Hymenium
 - c) Fruiting body
 - d) Fructification
- 5) A dark brown compact mass of mycelium acting as a resting body is called
 - a) Sclerotium
 - b) Chlamydospore
 - c) Rhizomorph
 - d) Zoospore
- 6) When a portion of fungal mycelium is used in the formation of reproductive structures, the organism is called
 - a) Eucarpic
 - b) Acarpic
 - c) Holocarpic
 - d) Cystocarp
- 7) The mycelium is typically coenocytic in
 - a) Phycomycetes
 - b) Ascomycetes
 - c) Basidiomycetes
 - d) Deuteromycetes
- 8) White rust of crucifers is caused by
 - a) *Phytophthora*
 - b) *Albugo*
 - c) *Puccinia*
 - d) *Penicillium*
- 9) Hypertrophy of floral parts in a cruciferous plant is caused by
 - a) Conidia of *Cystopus*
 - b) Conidiophores of *Cystopus*
 - c) Accumulation of hyphae of *Cystopus* for sexual reproduction
 - d) Stunted growth
- 10) Yeast is an important source of
 - a) Protein
 - b) Riboflavin
 - c) Sugar
 - d) Ascorbic acid
- 11) Which of the following is commonly called as blue-green mould?
 - a) *Aspergillus*
 - b) *Penicillium*
 - c) *Alternaria*
 - d) *Puccinia*

25) Match the following:

- | | |
|------------------|-------------------------|
| a) Grain smut | a) <i>Haemelia</i> |
| b) Ergot | b) <i>Claviceps</i> |
| c) Red rust | c) <i>Pyricularia</i> |
| d) Blast disease | d) <i>Sphacelotheca</i> |
| e) Coffee rust | e) <i>Puccinia</i> |

II Answer any Six of the following :

6x5=30

1. Explain the life cycle of polymorphic fungus on the primary host.
2. Asexual reproduction in *Penicillium*.
3. Role of fungi as model genetic organisms.
4. Give an account of endomycorrhiza.
5. Describe the structure of archegoniophore in *Marchantia*.
6. Explain anomalous secondary growth in monocot stem.
7. What is Koleroga? Give the symptoms, casual organism and control measures.
8. Give an account of secretory tissues.
9. Explain the capsule of *Funaria*.

III SEMESTER
PAPER III - PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND
PHYTOGEOGRAPHY

		60 HRS
UNIT I:	Pteridophytes Introduction and classification (as per K.R. Sporne) Study of diversity in morphology, anatomy and reproduction of the following groups as studied in representative forms: i) Psilotopsida – Eg: <i>Psilotum</i> ii) Lycopsidea – Eg: <i>Selaginella</i> iii) Sphenopsida – Eg: <i>Equisetum</i> iv) Filicopsida – Eg: <i>Marsilea</i> (Developmental stages not required). A brief account of stelar evolution, heterospory & seed habit.	15 hrs
UNIT II:	Paleobotany : Contribution of Paleobotanist - Birbal Sahni. Geological time scale, methods of studying fossils; Process of fossilization, types of fossils. A brief account of Rhynia, Calamites (Stem), Cycadeoidea	10 hrs
UNIT III:	Environmental Biology Introduction and scope of environment biology Ecological factors: Climatic, Edaphic and Biotic. Ecosystem – Concept, components, study of marine, grassland and cropland ecosystems. Ecological Succession – Hydrosere, Xerosere Ecological adaptations – Hydrophytes, Xerophytes, Halophytes, Epiphytes and Parasites.	15 hrs
UNIT IV:	Ecosystem management – Soil reclamation, watershed management and remote sensing. Biodiversity : Genetic diversity and Ecological diversity. Need for integration of biodiversity with science and technology. Conservation of natural resources – Over exploitation of natural resources, Principle methods of soil conservation (Biological and Mechanical), Afforestation. Social forestry, Agroforestry. Forest conservation. Conservation of plant diversity – (In situ & Ex situ), Role of seed bank, gene bank and pollen bank.	15 hrs
UNIT V:	Brief account of Continental drift Phytogeography – Phytogeographical regions of India, Vegetational types of Karnataka state.	5 hrs

III SEMESTER
PAPER III - PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND
PHYTOGEOGRAPHY

Total Units allotted = 15

UNIT I:	Identification and classification of Pteridophytes (Examples studied in the theory)	4 units
UNIT II:	Paleobotany – Study of specimens and slides (Fossil material / slide)	2 units
UNIT III:	Study of one example for each adaptation (Specimens and slides) Estimation of Oxygen & chloride content in given samples	4 units
UNIT IV:	Marking of vegetation types on Karnataka map	1 unit
UNIT V:	Study of quadrat and line transect methods in ecology (Preferably to be conducted in the field)	2 units
UNIT VI:	Submission of 4 permanent free hand sections (Both Pteridophytes and ecological adaptations).	2 units

References :

01. Agashe, S.N. (1995) Paleobotany. Plants of the past, their evolution, paleoenvironment & application in exploration of fossil fuels. Oxford I.B.H. New Delhi
02. Chandra S. Pteridology in the new millennium. International Book suppliers, New Delhi
03. Croizal, L.(1952). Manual of Phytogeography
04. Devoryas, T. (1967) Palaeobotany
05. Odum, E.P, (1971). Plant Ecology. W.B. Snderson Co., Philadelphia
06. Pandey, Botany Vol II, Chand Publication
07. Parihar N.S. (1977) The morphology of Pteridophytes. Central Book Depot, Allahabad
08. Polumine, N. (1950). Introduction to Plant Geography. Longmans Publishers, London.
09. Rashid A(1998). An Introduction to Pteridophyta. 2nd Ed., Vikas Pub. House Pvt. Ltd., New Delhi
10. Sharma P.D. (1993) Ecology & Environment, Rastogi Pub., New Delhi
11. Sporne, K.R. (1966) The Morphology of Pteridophytes. The structure of ferns and allied plants. Hutchinson University Library, London
12. Trivedi. A text book of Environmental Sciences. L.B.Publishers
13. Vasishta, B.R. Pteridophyta. S Chand & Co Ltd, New Delhi
14. Thomas N. Taylor, Edith L. Taylor and Michael Krings (2008), Paleobotany, Second Edition: The Biology and Evolution of Fossil Plants.
15. Wilson N. Stewart & Gar W. Rothwell (2010), Paleobotany & the Evolution of Plants

III SEMESTER
Practical Question Paper
PAPER III - PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND
PHYTOGEOGRAPHY

Time: 3 Hours

Max Marks: 30

- | | | |
|---|---|----------------------|
| 1 | Identify and classify specimen A and B giving reasons. | 3 x 2 = 6 |
| 2 | Identify the slides C and D with reasons and diagrams | 3 x 2 = 6 |
| 3 | Comment on slide / specimen / photocopy/photograph of E | 3 x 1 = 3 |
| 4 | Identify and comment on ecological adaptation of F and G | 2 x 2 1/2 = 5 |
| 5 | Estimate the O ₂ / Chloride content of the given sample H | 5 |
| 6 | Class record and slides | 3 + 2 = 5 |

Scheme of Valuation

1. Pteridophytes
(Identification & Classification – 1 mark; Reasons – 2 marks)
2. Pteridophytes
(Identification – 1 mark; Reasons – 1 mark, Diagram – 1 mark)
3. Fossil material
(Identification – 1 mark; Comment – 2 marks)
4. Specimens / Slides
(Identification – 1 mark; Comment – 1¹/₂ marks)
5. O₂ / Chloride content
(Conducting the experiment – 2 marks; – 1, Principle and Procedure – 2 marks; Results – 1 mark)
6. Submissions: 4 free hand permanent slides of Pteridophytes and Ecological specimens + Class records (Marks 2 + 3)

MODEL QUESTION PAPER

PAPER III: PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL BIOLOGY AND PHYTOGEOGRAPHY

TIME: 3 hours

Max. Marks: 60

I. Answer the following by choosing the correct choice:

1 x 30 = 30

1. Pteridophytes represent the:
a) Amphibious plants c) Flowering plants
b) Vascular plants d) Naked seed plants.
2. Pteridophytes commonly possess:
a) Trachea b) Cotyledons c) Tracheids d) Albuminous cells.
3. *Selaginella* is also called as:
a) Moss b) Horse Tails c) Fern d) Resurrection Plant
4. Identify the heterosporous fern:
a) *Psilotum* b) *Selaginella* c) *Equisetum* d) *Marsilea*
5. Polystelic condition is observed in:
a) *Rhynia* b) *Marsilea* c) *Selaginella* b) *Psilotum*
6. Trabaculacae are present in the stem of:
a) *Selaginella* b) *Marsilea* c) Moss d) Ferns
7. Trilobed sporangia in *Psilotum* are also called:
a) Sporogonium b) Strobilus c) Synangia d) Cone
8. The eminent Indian Paleobotanist is:
a) Parihar b) Balraj Sahni c) M S Swaminathan d) Birbal Sahni
9. The Jurassic period was predominated by:
a) Thallophtyes b) Angiosperms c) Tree Ferns d) Lycopod
10. The age of fossils can be estimated by:
a) Nitrogen fixation b) Carbon assimilation
c) Radioactive Phosphorus d) Carbon dating
11. *Rhynia* was first observed in the soils of:
a) India b) Yellow stone c) Germany d) Gold Coast
12. Petrified part of the plant are usually:
a) Pericarp b) Leaf c) Stem d) Ovule
13. Petrology is the study of:
a) Petrol b) Fossils c) Rocks d) Soil
14. Pedology refers to the study of:
a) Earth b) Phylogeny c) Soil d) Pseudofossils
15. Ground water enrichment may be done through:
a) Borewells b) Tanks c) Water Harvesting d) Wet Irrigation.

16. The non living component of an ecosystem include:
a) Biotic factors b) Edaphic factors c) Abiotic factors d) Decomposers
17. Floods can cause:
a) Vegetation growth b) High transpiration c) Erosion d) Salt resistance
18. Soil reclamation is done by:
a) Red Algae b) Moss c) Cyanobacteria d) Ferns
19. Plants growing in salt water marshes are called:
a) Mesophytes b) Epiphytes c) Xerophytes d) Halophytes
20. Sandal wood tree is a:
a) Total parasite b) Semi parasite c) Ectoparasite d) Endoparasite
21. Acid rain is due to increase of:
a) CO₂ b) NO₂ c) SO₂ d) O₂
22. The national agency for remote sensing is:
a) ICAR b) CSIR c) UGC d) NRSA
23. 'Ozone holes' were reported to be prominent in:
a) Arctic b) Antarctic c) African d) Australian region.
24. Western Ghats are recorded as:
a) Zones of abundant wildlife b) Natural waterfall regions c) Arid zones d) Biodiversity Hotspot
25. The 'Chipko Movement' was initiated by:
a) Amrita Devi b) Suresh Heblkar c) S.L. Bahuguna d) UNEP
26. Seed banks, pollen banks and gene banks facilitate:
a) Easy propagation b) Mutations c) Food security d) Easy trading
27. An example of total parasite is:
a) Vanda plant b) Sandal wood tree c) Ipomea d) Cuscuta
28. Parasites absorb nutrition through:
a) Rhizoids b) Velamen c) Haustoria d) Rhizomes
29. Andaman and Nicobar islands possess:
a) Deciduous forests c) Temperate forests b) Pine forests d) Mangrove forests
30. Kodagu district in Karnataka has:
a) Pine forests b) Mangrove forests c) Dry deciduous forests d) Tropical evergreen forests

II ANSWER ANY SIX QUESTIONS:

6 X 5 = 30

1. With neat labeled diagrams explain the morphology and internal structure of the synangium in *Psilotum*.
2. Describe the strobilus, as seen in L.S, of *Selaginella* with the aid of a diagram.
3. Explain the structure and morphological nature of the sporocarp in *Marsilea*.
4. Describe the anatomy of the rhizome in *Marsilea*.
5. Describe the marine ecosystem.
6. Global warming and Green house effect' pose a serious threat, Discuss.
7. Explain the stages in the formation of Xerosere.
8. Elucidate the vegetation types of Karnataka.
9. Methods of Conservation

IV Semester

Paper IV- GYMNOSPERMS AND EMBRYOLOGY OF ANGIOSPERMS

60 HRS

- UNIT I: GYMNOSPERMS** - General account and classification, distribution, structure and reproduction of *Cycas*, *Pinus* and *Gnetum*. (Development stages not required), Economic importance of Gymnosperms. 15 hrs
- UNIT II: EMBRYOLOGY OF ANGIOSPERMS: Male Gametophyte: Anther** -- 15 hrs
Development and structure (detailed account of Anther wall layers inclusive of Tapetum)
Tapetum – Types, Cytology or nuclear behaviour of tapetum.
Microsporogenesis, development of Male Gametophyte (Microgametogenesis).
Brief account of Pollen embryo sac (Nemec Phenomenon) Pollen Morphology (A brief account on pollen wall, apertures, shapes, size and architecture based on number, position and characterisation (NPC System) Palynology and its applications.
- UNIT III: Female Gametophyte: Ovules** – Types (Orthotropous, Anatropous, Campylotropous, Amphitropous & Circinotropous) 15 hrs
Megasporengesis – study of types of embryo sac or female gametophyte development, Monosporic type (*Polygonum* type), Bisporic type (*Allium* type) (Difference between *Allium* and *Endymion* type)
Tetrasporic type (*Fritillaria* type)
Fertilization – General account
(Germination of Pollen grain on stigma, Path of Pollen tube in style, Histology of style, entry into ovule – Porogamy, Mesogamy and Chalazogamy, Double fertilization – Pre- Mitotic, Post – Mitotic and intermediate).
Post fertilization changes.
Preferential fertilization and Polyspermy.
- UNIT IV: Endosperm** – Types (Free Nuclear - abinitio – Cellular and Helobial). 05 hrs
Brief account on endosperm Haustoria (*Cucumis* and *Grevillea*) and Ruminant endosperm.
Embryo – Classification (Schnarf 's system), Development of Dicot embryo – Crucifer type Ex- *Capsella bursa pastoris* and Monocot embryo (Grass)
Polyembryony – A brief account on Parthenocarpy
- UNIT V: Experimental Embryology** – Definition, Totipotency, Basic techniques in plant cell & tissue culture methods, Nutrient media (MS & white's), Tissue and organ culture (anther, cell and protoplast culture), Practical applications, Embryology of Podostemaceae. 10hrs
Embryology in relation to Taxonomy – Ex: *Trapa* and *Exocarpus*
Contributions of P. Maheshwari & B. G. L. Swamy.

**SEMESTER IV
PRACTICAL IV
[Gymnosperms & Embryology of Angiosperms]**

		Total Units – 15 Units
1	Study of Materials and Permanent slides of Gymnosperms- <i>Cycas</i> , <i>Pinus</i> and <i>Gnetum</i> (Included in theory).	5 units
2	Permanent slides of Microsporogenesis and male gametophyte.	1 unit
3	Mounting of Pollen grains – Grass, <i>Mimosa</i> , Pollinia of <i>Calotropis</i> – Micropreparation (By students)	1 unit
4	Hanging Drop Method – Eg: <i>Vinca</i> (By students)	1 unit
5	Types of Ovules – permanent slides	1 unit
6	Types of Placentation – Sectioning of ovary (By students to observe Axile, Basal, Parietal and Marginal type).	2 units
7	Mounting of embryo – <i>Tridax</i> / Mustard.	2 units
9	Mounting of endosperm – <i>Cucumis</i> .	2 units

References

1. Bhatnagar, S.P. and Moitra, A. **Gymnosperms**. New Age Publications, New Delhi.
2. Bhojuwani, S.S. & Bhatnagar, S.P. (1979). **The embryology of angiosperms**, Vikas Pub, New Delhi.
3. Coulter & Chamberline. (1964). **Morphology of Gymnosperms**. Central Book Depot.
4. Johri, B.M. (1984). **Embryology of Angiosperms**. Springer – Ver Berlin.
5. Maheshwari, P. (1950). **An Introduction to Embryology of Angiosperms**. Tata Mc Graw Hill, New York.
6. Shukla, A.K. (1999). **Biology of Pollen**. Atlas books & Periodica
7. Sporne, K.R. (1974). **The Morphology of Gymnosperms**, Hutchinson & Co. London.
8. Sundarajan, S. (1997) **College Botany Vol. II**. Himalaya Publication.
9. Swamy, B.G.L. **From Flower to Seed**.
10. Vashista, B.R. (1990) **Gymnosperms**. S. Chand & Co. Ltd., New Delhi.

B.Sc. IV Semester – Practical Question

Model Question Paper

Time – 3 HRS

Max Marks:- 30

- | | |
|--|----------|
| 01. Identify & Classify Specimens A, B & C Giving reasons | 3 x 3 =9 |
| 02. Identify the slides D, E & F with reasons & labeled diagrams | 3 x 3 =9 |
| 03. Mount the endosperm/ embryo of specimen G & Comment. | 5 x 1 =5 |
| 04. Comment on H | 2 x 1 =2 |
| 05. Class Record & permanent slides | 3 + 2=5 |

Scheme of Valuation

1. Gymnosperms [Cycas, Pinus & Gnetum] (Materials) [Identification & Classification – 1 Mark
Reasons – 2 Marks]
2. One Gymnosperm slide & Two embryology slides [Embryology slides may include T.S. of Young
anther & mature anther, different stage of Embryo Sac developement i, e 2 nucleate, 4 nucleate &
organized or mature embryo Sac, Types of ovules, Types of Placentation & embryo] [Identification –
1 Mark, Diagram – 1 Mark & Reasons – 1 Mark]
3. Endosperm / Embryo Mounting (Temporary Micropreparation) (mounting – 3 Marks Comment
with diagram- 02 Marks)
4. Types of pollen grains (permanent slides) / Pollinia (permanent slide)
Section of ovary to observe placentation – Axile, Basal, Marginal,
Parietal – Temporary Micro Preparation.
Diagram – ½ Mark
Comment – 1 ½ Marks / Sectioning, slide preparation 1 ½ Marks,
Identify the type of Placentation with diagram – ½ Marks
1. Submission – 4 Free hand permanent slides of Gymnosperms /
Pollinia + class Record – (2+3) (Each slide – ½ Mark)

Model Question Paper

Semester IV

Paper IV [Gymnosperms and Embryology of Angiosperms]

Time:- 3 Hrs

Max Marks :- 60

I Answer the following by choosing the correct choice:

1 x 30 = 30

1. Coralloid roots are seen in
a) *Hibiscus* c) *Cycas* b) Fungus d) Algae
2. Male cone in *Cycas* is made of
a) Flowers c) Microsporophylls b) Ovules d) Megasporephylls
3. Pollen chamber is present in
a) Algae b) Stamen c) Embryo Sac d) Ovule of *Cycas*
4. *Pinus* is a
a) Cycad b) Conifer c) Angiosperm d) Pteridophyte
5. Ovuliferous scale is seen in
a) Megasporephyll of c) Male cone of *Gnetum Pinus* female cone m
b) Male cone of *Pinus* d) Female cone of *Gnetum*.
6. *Pinus* Shows
a) Pocket of Pollen grains b) No Pollen grains c) Pollinia d) Winged Pollen grains
7. *Gnetum* leaf resembles with
a) Dicot leaf b) Monocot leaf c) Fern leaf d) Moss leaf
8. Pavement Tissue is present in
a) Ovule of *Gnetum* b) *Cycas* ovule c) *Pinus* Ovule d) Angiosperm ovule
9. Cupules are seen in
a) Cone of *Cycas* b) Cone of *Pinus* c) Cone of *Gnetum* d) Angiosperm ovule
10. *Cycas* exhibits following fern character namely
a) Soral organization b) Naked seededness c) Ovules d) Absence of Vasculature
11. Microsporogenesis is production of
a) Microspores b) Megaspores c) Ovules d) Stamens
12. Endothelium of Anther wall in Angiosperms is
a) Multi layered b) A Nutritive Tissue c) Hygroscopic in nature d) Spore producing Tissue
13. Ubisch bodies are produced in
a) Archosporium b) Glandular or Secretary type c) Megaspore Mothercell d) Pollen grain of Tapetum
14. Nemece Phenomenon is about
a) Types of ovules b) Pollen Embryo sac c) Types of Pollen grains d) Types of Placentations
15. NPC System is
a) Number, Position & Characterization c) Types of Megaspores of Pollen grain
b) Types of endosperm d) Types of Embryo Sac
16. 180° Curvature is seen in
a) Anotropous Ovule b) Orthotropous ovule c) Amphitropous ovule d) Circinotropous ovule

17. Megaspороogenesis is production of
a) Endospores b) Conidiospores c) Microspores d) Megaspores
18. *Polygonum* type of Embryo Sac Comes under
a) Bisporic type b) Monosporic type c) Tetrasporic type d) Pentasporic type
19. Entry of the pollen tube in to the ovule through Micropyle is
a) Mesogamy b) Porogamy c) Chalazogamy d) Triple Fusion
20. Double Fertilization is
a) Syngamy only b) Triple Fusion only c) Somatic in nature d) Syngamy + Triple Fusion
21. Triple Fusion results in
a) Primary endosperm nucleus b) Zygote c) Embryo d) Embryosac
22. Free Nuclear is a type of
a) Embryo b) Endosperm c) Embryo Sac d) Type of Ovule
23. Mature Embryo is
a) Globular b) Horse – Shoe Shaped c) Cordate d) Torpedo Shaped
24. When Zygote cleaves and produces many embryos, it is
a) Cleavage Polyembryony b) Adventive Polyembryony c) Apomixis d) Polyspermy
25. In tissue culture, amorphous mass of cells is called
a) Totipotency b) Callus c) Callose d) Plantlet
26. Fusion of protoplast is
a) Somatic Hybridization b) Protomixis c) Somatic embryogenesis d) Somatogamy
27. On the basis of embryological differences, it can be easily justified that Trapa can be removed from
a) Santalaceae b) Euphorbiaceae c) Hydrocharitaceae d) Onagraceae
28. In Podostemaceae
a) Embryo Sac is absent b) Embryo is absent c) Endosperm is absent d) Pollen absent
29. Anther culture is useful in raising
a) Haploid plants from microspores c) Plants from Megaspores or pollen grains
b) Parthenocarpic fruits d) Polyploid fruits
30. Shoot formation in tissue culture refers to
a) Callogenesis b) Caullogenesis c) Organogenesis d) Rhizogenesis

II Answer any six of the following :-

5 X 6=30

1. With neat, labeled diagram, describe the L.S of mature ovule of *Cycas*
2. Describe the T.S of stem in *Pinus* with the help of neat, labelled diagram.
3. Give a comparative account of male & female cones in *Gnetum* with diagrams.
4. With the help of neat, labelled diagram, describe the Anther wall in Angiosperms.
5. Explain the development & structure of *Polygonum* type of embryo Sac in Angiosperms with the help of neat, labelled diagram.
6. Describe Double fertilization in angiosperms
7. Explain the Free Nuclear type of Endosperm in Angiosperms & add a note on Endosperm Haustorium.
8. What is Polyembryony? Describe the Adventive polyembryony in angiosperms.
9. Give a brief account on Nutrient Media in Tissue culture & add a note on MS Media.

V SEMESTER

PAPER V: TAXONOMY AND ECONOMIC BOTANY.

- UNIT I: CLASSICAL TAXONOMY :** Aim and Scope of taxonomy Relevance 45 hrs
of taxonomy to conservation, sustainable utilization of bio-resources, plant exploration and introduction of exotic species. 08 hrs
- Brief History of taxonomy, broad outline of classification proposed by Bentham and Hooker, Engler and Prantl and their relative merits and demerits. Species concept: Taxonomic hierarchy, species, genus and family
- UNIT II: BIOSYSTEMATICS:** Plant nomenclature, Binomial system, rules for nomenclature. Salient features of the International code of Botanical nomenclature. 10 hrs
- Brief account of Taxonomic evidence: Morphology, anatomy, palynology, cytology and phytochemistry Taxonomic Tools: Herbarium and its techniques, floras and their importance. Botanical survey of India and its functions, Green House and its importance. Botanical gardens and their importance, (one state level, one National level & one International level).
- (State: Lalbagh, National: Indian Botanical garden-Sibpur, Calcutta International: Royal Botanical Garden, Kew, England).
- Numerical taxonomy, bio-systematic applications of Computer.
- UNIT III: MONOCOTYLEDONOUS FAMILIES:** Study of the following families according to Engler and Prantl system of classification and plants with their economic importance, Commelinaceae, Arecaceae, Orchidaceae, Poaceae & Musaceae. 4 hrs
- UNIT IV: DICOTYLEDONOUS FAMILIES:** Study of the following families according to Engler & Prantl system of classification and plants with economic importance:- **Archichlamydeae:** Magnoliaceae, Annonaceae Brassicaceae, Capparidaceae, Rutaceae, Leguminosae (Papilionaceae, Caesalpineae and Mimoseae) Apiaceae, Euphorbiaceae and Moraceae **Metachlamydeae:** Cucurbitaceae, Rubiaceae, Asteraceae, Asclepiadaceae, Convolvulaceae, Acanthaceae & Lamiaceae. 16 hrs
- UNIT V: ECONOMIC BOTANY:** Study of the following plants with Botanical names, family, part used and economic uses. 7 hrs

FOOD

Cereals and millets	Wheat, Rice, Jowar and Ragi
Pulses	Pigeonpea, Blackgram & Bengal gram
Edible oils	Groundnut, Coconut & Sesamum
Sugar and starch	Sugarcane, Beetroot, Potato and Tapioca.
Fibres	Cotton, Jute, and Coir
Paper and pulp	Bamboo, Eucalyptus
Beverages	Coffee, Tea, and Cocoa
Spices	Cardamom, Clove and Cinnamon
Timber	Teak, Rose wood
Medicinal	Phyllanthus, Ocimum, Catharanthus, Azardirachta & Aloe vera.

V SEMESTER
Paper V - PRACTICALS
TAXONOMY AND ECONOMIC BOTANY.

	Total Units 12
1. Modification of root, stem, and leaf.	01 Unit
2. Morphology: - Inflorescence, Racemose, Cymose, Mixed and Special types.	01 Unit
3. Fruits: Simple, fleshy, dry dehiscent and dry indehiscent, aggregate & multiple fruits.	01 Unit
4. Methods of identification of Plants with Technical terms.	01 Unit
5. Study of taxonomic characters of families included in theory (minimum one Genus from each family)	07Units
6. Study of economically important plants covered in theory to identify with Botanical names, families, parts used and Economic uses.	
7. Herbarium Techniques.	01 Unit
8. Study of local flora by arranging local collection trips.	
9. Submission of field report along with records	
10. Submission of Ten Herbarium of Plants included in theory.	

V SEMESTER
PAPER V: TAXONOMY AND ECONOMIC BOTANY.
PRACTICAL-V

Time: 3 hours

Max marks: 30

1. Assign the specimen A, B, and C to their respective families giving diagnostic features.	2x3=6
2. Describe D in technical terms, draw the floral diagram with floral formula.	4x1=4
3. Identify the specimens E, F, G, H and I with their morphological biological, and economic importance.	2x5=10
4. Record with field report	3+2=5
5. Submission	½x10=5

SCHEME

1. One Archichlamydeae, one Metachlamydeae, one Monocot (Identification ½ marks, Classification ½ mark. Diagnostic Features 01 mark)
2. Monocot/Dicot plant (Technical details 2marks, Floral diagram- 1marks, Floral formula 1mark)
3. Root/stem/leaf modification/inflorescence/fruit and /economic Importance. (Identification ½mark, diagram ½mark, description 1mark, for Economic importance, identification with family 1mark, parts use ½mark, economic uses ½mark)
4. Class Record -03 marks; Field Report 02 marks.
5. Submission of ten Herbarium of families studied- Herbarium -5 marks

REFERENCES

1. Dutta.S.C **Systematic Botany** Wiley Easter, New Delhi.
2. Ganguli & kar :**College Botany**. New Central book agency, Calcutta.
3. Lawrence G.H.M: **Taxonomy of Vascular plants**, Oxford & IBH publications NewDelhi
4. Jaques.H.E: **Plant families-How to know them**,IBS New Delhi.
5. Saxena.N.B& Saxen.S.**Plant taxonomy**, Pragathi Prakashan Meerat.
6. Stace.C.A : **Plant taxonomy& Biosystematics**, Cambridge University publication. USA.
7. Stebbins: **Flowering plants-evolution above the species level**, Arnold Pub. London.
8. Trivedi & Sharma: **Taxonomy of Angiosperm**, L.B Publications
9. Sharma O.P; **Plant Taxonomy**, Tata McGraw, Hill Publishing co, Ltd, New Delhi, India.
10. Singh.V.& D.K.Jain: **Taxonomy of Angiosperms**, Rastogi Publication, Meerut, India.
11. Subramanya N.S.: **Laboratory Manual of Plant Taxonomy** Tata Me Graw Hill Publishing Co, New Delhi.
12. Gamble.T.S: **Flora of Presidency of Madras**.
13. Radford, A.E: **Fundamental of Plant Systematics** Warper & Row Publications. USA.
14. Hill: **Economic Botany**.Tata McGraw Hill, New York.
15. Kumar.H.D. **Economic Botany**.
16. Pandey: **Economic Botany**. S.Chandra & Co Publication
17. Sambamurthy A.V.S.S & Subramanyam, **A Text book of Economic Botany**, Wiley Eastern Pub, New Delhi

Model Question Paper

[Paper – V TAXONOMY AND ECONOMIC BOTANY]

Time:- 3 Hrs

Max Marks :- 60

I. Answer the following by choosing the correct choice:

30x1=30

1. Botanical name of the Coconut Plant is:-
 - a) *Oryza sativa*
 - b) *Brassica oleracea*
 - c) *Cocos nucifera*
 - d) *Mangifera indica*
2. The largest family among the Diocotyledoneae is:-
 - a) Rubiaceae
 - b) Asteraceae
 - c) Cucurbitaceae
 - d) Amaranthaceae
3. Epigynous, gamopetalous family is :-
 - a) Rutaceae
 - b) Asteraceae
 - c) Annonaceae
 - d) Lamiaceae
4. Tetramerous flowers are seen in the gamopetalous family of :-
 - a) Brassicaceae
 - b) Rubiaceae
 - c) Rutaceae
 - d) Amaranthaceae
5. The condition of androecium in Cucurbitaceae is:-
 - a) Polyandrous
 - b) Synandrous
 - c) Diadelphous
 - d) Syngenesious
6. Fruit, Cucurbitaceae is:-
 - a) Pepo
 - b) Hesperidium
 - c) Pome
 - d) Samara
7. Polypetalous irregular corolla is seen in:-
 - a) Rosaceae
 - b) Papilionaceae
 - c) Lamiaceae
 - d) Brassicaceae
8. Gynobasic style is characteristic of the family:-
 - a) Lamiaceae
 - b) Compositae
 - c) Solanaceae
 - d) Papilionaceae
9. Bicarpellary ovary with parietal placentation is found in:-
 - a) Lamiaceae
 - b) Brassicaceae
 - c) Solanaceae
 - d) Magnoliaceae
10. Cleistogamous flower is seen in :-
 - a) Annonaceae
 - b) Rutaceae
 - c) Cucurbitaceae
 - d) Commelinaceae
11. In Sugarcane inflorescence is a :-
 - a) Spike
 - b) Panicle
 - c) Catkin
 - d) Verticillaster
12. Tetradyamous condition of androecium is one of the striking features of :-
 - a) Papilionaceae
 - b) Brassicaceae
 - c) Rubiaceae
 - d) Cucurbitaceae

26. The science of Cytotaxonomy is based on-
- Shape and size of cell
 - Cell organelles
 - Cytochrome "C"
 - Chemical composition of Cytoplasm
27. In Engler and Prantl's system of classification
- Monocot precedes dicots
 - Dicots precedes monocots
 - Gymnosperms are in between dicot and monocots
 - Gymnosperms after monocots and dicots.
28. Indicate which one of the following statements, does not apply to the family Poaceae.
- Fistular stem
 - Inflorescence spikes
 - Gynoecium bicarpellary
 - Ovary with two feathery stigmas
29. Taxonomic category in taxonomic hierarchy which end with-ales is:-
- Family
 - Order
 - Class
 - Species
30. The Botanical name of Sitapal is:-
- Artabotrys uncinatas*
 - Michelia champaka*
 - Annona squamosa*
 - Polyalthia longifolia*

II. Answer any six of the following

6x5=30

- Give a brief account on Bentham & Hooker system of classification.
- Explain the acts & principles of ICBN.
- Write short notes on Cytotaxonomy.
- Write salient features of Orchidaceae.
- Mention the diagnostic characters of family Asclepiadaceae.
- Give a comparative account of Androecium & Gynoecium in Lamiaceae & Acanthaceae.
- Mention the economic importance of any two spices you have studied.
- Discuss the importance of a national level Botanical garden.
- Describe the floral characters of Papilionaceae.

V SEMESTER

PAPER VI-CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

- UNIT I:** **HISTORY OF CYTOLOGY:** Cell as a fundamental unit of life and organism – modern concepts. Microscopy : Light, fluorescent and electron microscope. Live imaging techniques for studying cell and tissues. **45 Hrs**
3 Hrs
- UNIT II:** **CHROMOSOME BIOLOGY :** Structure of eukaryotic chromosome; centromere, kinetochore and telomere. **10 Hrs**
Nucleosome and its importance in the organisation of eukaryotic chromosome. Types of Chromosomes; biarmed and holocentric types. Numerical changes in chromosome number, polyploidy and aneuploidy – trisomics and monosomics. Karyotype concept and its relevance in the genomic era; c-value and genome size. Euchromatin and heterochromatin.
- UNIT III:** **CELL DIVISION :** Discovery; cell cycle and its regulation with reference to cell division. Mitosis : phases, significance in growth and development and in cancer–Apoptosis (PCD). **10 Hrs**
Meiosis – phases – significance in gametogenesis in plants. Chromosomal aberrations manifested during meiosis - Deficiency, duplication, translocation and inversion.
- UNIT IV:** **GENETICS:** Introduction: Gregor Mendel – his life and contribution to genetics. Genotype and phenotype. Law of dominance, segregation of genes, Independent assortment of genes. Incomplete dominance, Interaction of genes – supplementary and complementary factors. Epistasis, multiple factor inheritance; linkage and crossing over. **12 Hrs**
POST MENDELIAN GENETICS
Gene concept and Chromosomal basis of heredity. Extra chromosomal inheritance : Plasmid DNA, chloroplast & mitochondrial inheritance, Cytoplasmic male sterility and its role in hybrid seed production. Genetic problems in relation to topics in Unit 4.
- UNIT V:** **EVOLUTION :** Theories of Darwin, DeVries and Lamarck; modern concepts of evolution – 2 R Hypothesis: evolution by gene duplication; modern synthesis. “Big Bang” theory **10 Hrs**
PLANT BREEDING : Aims & objectives of plant breeding – a historical account. Basic techniques of plant breeding. Vegetative propagation methods – Cutting, grafting, layering, gootee, cloning Intergeneric and interspecific hybridization, maintenance of germplasm, pollen banks, quarantine methods.

V SEMESTER- PRACTICAL PAPER VI
PAPER VI-CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

Total Units 12

1	Preparation of cytological stains – Aceto carmine, Aceto orcein and Feulgen’s stain.	01 Unit
2	Mitosis from Allium root tips–Aceto carmine and Feulgen’s techniques.	02 Units
3	Meiosis from Allium flower buds.	02 Units
4	Salivary gland chromosomes of Drosophila or Chironomous larvae.	01 Unit
5	Karyotype and Idiogram : Camera Lucida drawing.	01 Unit
6	Permanent slides of Mitosis.	01 Unit
7	Permanent slides of Meiosis.	01 Unit
8	Emasculation and bagging of the flower buds of Cassia / Peltophorum.	01 Unit
9	Genetic problems and laboratory mind teasers.	02 Units
10	Submission : Record and Slides: two Mitosis, two Meiosis and one Salivary gland chromosomes.	

REFERENCES

1. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter (2007): **Molecular Biology of the Cell** : 5th Edn. 2007; Garland Science Text Book. 1392pp 1526 illustrations. Package with Media DVD.
2. Botter, **Text Book of Genetics**, L.B. Publications.
3. Chahal, **Principles and Procedures of Plant Breeding**, L.B. Publications.
4. Gopalakrishnan, T.S., Itta Sambasivaiah & Kamalakar Rao, **Principles of Organic Evolution**.
5. Gupta, P.K. **Cytology, Genetics & Evolution**, Rastogi Publication.
6. Hughes, **Plant Molecular Genetics** L.B. Publications.
7. Klug, **Concept of Genetics** 7th Edn. L.B. Publications.
8. Peter snustad, D and Michael J. Simmons (2006) **Principles of Genetics** 4th Ed, Wiley & Sons, INC.
9. Sinha and Sinha : **Cytogenetics, Plant Breeding & Evolution** Vikas Publications.
10. Sinnot, E.W., Dunn, L.C. & Dobzonsky, T. (1958) **Principles of Genetics** 1958. Tata MacGraw Hill, New York.
11. Stickburger, M. (1990) **Genetics** 3rd Edn. 1990. MacMillan Publishing Company.
12. Susumu Ohno (1970) : **Evolution by Gene Duplication** : 4th Edn. 2004; Springer 1970.

V SEMESTER
PAPER VI - CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING PRACTICAL
QUESTION PAPER

Time : 3 Hrs.

Max. Marks : 30

1.	Prepare a temporary mitotic slide from material A ; identify the stage with diagram.	6
2.	Prepare a temporary meiotic slide from material B ; identify the stage with diagram.	6
3.	Identify and comment on C along with a sketch.	3
4.	Identify and comment on slides D and E with suitable sketches.	3+3
5.	Solve the Genetic Problem F	4
6.	Submission of record and slides	2½+2½

SCHEME OF VALUATION

1. Preparation – 4 marks, identification of stage – 1 mark and diagram – 1 mark.
2. Preparation – 4 marks, identification of stage – 1 mark and diagram – 1 mark.
3. Karyotype - slide or sketch / Salivary gland Chromosomes – slide or sketch. Sketch – 1
 mark, identification – ½ mark , comment 1 ½ marks
4. One slide from mitosis and one slide from meiosis. Identification - ½
 mark, sketch – ½ mark, comment – 2 marks.
5. Genetic problems from
 - i. Dihybrid cross and test cross
 - ii. Incomplete dominance
 - iii. Complementary factors
 - iv. Supplementary factors
 - v. Epistasis.
6. Submissions : 2 Mitotic and 3 Meiotic permanent slides – 2 ½ marks.
 Class Record – 2 ½ marks.

MODEL QUESTION PAPER

V Semester Paper VI

Cytology, Genetics, Evolution and Plant Breeding

Time : 3 Hrs.

Total Marks: 60

I. Answer the following by choosing the correct choice:

30 X 1 = 30

1. The word "cell" was first coined by
 - a) Robert Hooke
 - b) Hugo von Mohl
 - c) Purkinje
 - d) Robert Brown
2. The name "protoplasm" was given by
 - a) Robert Hooke
 - b) Hugo von Mohl
 - c) Purkinje
 - d) Robert Brown
3. The Cell theory was proposed by
 - a) Robert Brown
 - b) Schleiden and Schwann
 - c) Robert Hooke
 - d) Rudolf Virchow
4. The presence of chromosomes in the cells was first noticed by
 - a) Waldeyer
 - b) Flemming
 - c) Hofmeister
 - d) Strasburger
5. The term "chromosome" was first used by
 - a) Hofmeister in 1848
 - b) Flemming in 1879
 - c) Strasburger in 1875
 - d) Waldeyer in 1888
6. The Chromosome theory of Inheritance was first proposed by
 - a) Gregor Mendel
 - b) Sutton and Boveri
 - c) Beadle and Tatum
 - d) Johansen
7. The compound microscope was first invented by
 - a) Anton von Leuwenhoek
 - b) Robert Hooke
 - c) Zacharias Jensen
 - d) All the three
8. For observation under electron microscope the specimen must be
 - a) Dry and dead
 - b) Dry and living
 - c) Wet and living
 - d) Wet and dead
9. The non-stainable gap between the two arms of a chromosome is called
 - a) Kinetochore
 - b) Primary constriction
 - c) Centromere
 - d) b and c
10. During metaphase the attachment of spindle fibres takes place on
 - a) Telomere
 - b) Kinetochore
 - c) Centromere
 - d) Secondary constriction
11. A chromosome with terminal centromere is called
 - a) Metacentric
 - b) Acentric
 - c) Acrocentric
 - d) Telocentric

VI SEMESTER

PAPER VII: Molecular Biology, Genetic Engineering & Plant Physiology – 1.

45 Hrs

- UNIT I:** **Molecular Biology** Introduction, discovery, chemical nature & replication of genetic material, genetic code, non genetic RNA, Biosynthesis of proteins, Regulation of gene action in prokaryotes & eukaryotes. **8 hrs**
- UNIT II:** **Genetic Engineering & Biotechnology** A Concise account of methods used in 'Recombinant DNA' technology, Gene libraries, screening of Genomic DNA library, application of genetic engineering technology in agriculture. A brief account on hazards & safe guards of genetic engineering technology with special reference to Bt crops. A brief account of Bioinformatics and its uses
Microbial Biotechnology: Uses of microbes in Industry & agriculture. Fermentation - production of Ethanol, production of Enzymes–Amylases. Production of antibiotics–Penicillin. **15 hrs**
- UNIT III:** **Plant Physiology - Water relations:** Importance of water, Diffusion, Osmosis, Water potential, Osmotic Potential, Membrane & their permeability. **8 hrs**
Absorption of water– Mechanisms of water absorption, factors affecting rate of water absorption
- UNIT IV:** **Mechanism of ascent of Sap** – Vital and Physical force theories : **6 hrs**
Transpiration – Loss of water, Types, Mechanism, Stomatal Dynamics, Stomatal Mechanism, Significance, Factors affecting transpiration, anti - transpirants, Guttation.
- UNIT V:** **Mineral nutrition in plants** – Major & Minor Elements , their deficiency symptoms in plants **8 hrs**
Phloem transport- Transport of organic solutes. Path of transport, Vein loading and unloading. Transcellular or streaming hypothesis, contractive protein hypothesis, mass flow hypothesis, electro osmosis), Source – Sink concept

REFERENCES

1. Buchanan, B.B, Gruissem, W. and Jones, R.L. 2004. **Biochemistry and Molecular Biology of plants**. I.K. International PVT., New Delhi,
2. Dey and Harborne, J. B. (Eds.) 1977. **Plant Biochemistry**. Academic Press, New York.
3. Hall, D.O. and Rao, K.K. 1999. **Photosynthesis**. 6th edition, Published in association with the Institute of Biology, Cambridge University Press. Cambridge, U.K.
4. Harborne, T. C. 1981. **Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis**. Chapman & Hall, London.
5. Lodish, Berk, Matsudaira, Kaiser, Kriege, Scott, Zipursky Darnell. (2004). **Molecular cell Biology Fifth Edition**, W. H. Freeman and company, New York.
6. Moore, T.C. 1989. **Biochemistry and physiology of Plant Hormones**. 2nd edition. Springer – Verlag, New York, USA.
7. Moore, T.C. 1974. **Research Experiences in Plant Physiology: A Laboratory Manual**. Springer. Verlag, Berlin.
8. Peter snustad, D and Michael J. Simmons (2006) **Principles of Genetics**. 4th Ed. Wiley & Sons-INC.
9. Plummer, D.T. 1988. **An Introduction to Practical Biochemistry**. Tata McGraw-Hill Pub. Co. Ltd., New Delhi.
10. Singhal, G.S., Renger, G., Sopory, S.K., Irrang, K.D. and Govindjee. 1999. **Concepts in Photobiology: Photosynthesis and Photomorphogenesis**. Narosa Publishing House, New Delhi.
11. Stumpf, P.K. and Conn, E.E. (eds.) 1988. **The Biochemistry of Plants- A Comprehensive treatise**. Academic Press, New York.
12. Taiz L & Zeiger E. 1998. **Plant Physiology**. 2nd Edn. Sinauer Associates, Inc., Publishers, Massachusetts, USA.
13. Taiz, L. & Zeiger, E. 2003. **Plant Physiology**. 3rd edition. Panima Publishing Corporation, New Delhi/ Bangalore.
14. Thomas, B. and Vince- Prue, D. 1997. **Photoperiodism in plants**. 2nd edition. Academic Press, San Diego, USA.
15. Wilkins M.B.(eds.) 1989. **Advanced Plant Physiology**. Pitman publishing Ltd., London
16. Wilson, K and Goulding, K.H. (Eds.). 1986. **A Biologists Guide to Principles and Techniques of practical Biochemistry**. Edward Arnold, London, UK.

VI SEMESTER
PAPER VII: Molecular Biology, Genetic Engineering & Plant Practical
12 Units

1	Qualitative tests for starch, protein and reducing sugars.	02Units
2	Determination of osmotic potential of cell sap by plasmolytic method.	01 Unit
3	Determination of Stomatal Index .	01 Unit
4	Structures of stomata in hydrophytes, mesophytes and xerophytes	01 Unit
5	Streaming of protoplasm to show cyclosis	01 Unit
6	Determination of pH of plant samples by using indicators	01 Unit
7	Study of deficiency symptoms – Chlorosis, Necrosis. Hydroponics	03Units
8	Study of phloem transport by ringing experiment.	01 Unit
	Visit to Bioinformatics/ Molecular Biology Laboratory	

VI - Semester Practical Question Paper
PAPER VII: Molecular Biology, Genetic Engineering & Plant Physiology - I

Time ; 3 Hours

Max Marks : 30

01.	Conduct the biochemical test of the sample 'A'	5
02.	Determine the osmotic potential of cell sap by plasmolytic method stomatal index material B	7
03.	Determine the pH of the given sample C	2
04.	Comment on experiment D & E	3+ 3
05.	Class Record + Submission (Tour Report)	5 + 5

Scheme of Valuation

1. Samples – Starch, Protein & Reducing sugar (Positive test- 2 marks; Negative test – 3 marks)
2. (Conducting the experiment – 2 marks; Principle –2 marks; Procedure –1 marks; Result – 2 Marks)
3. Extract from Root, Stem Leaves of a plant to be given (Determination of pH- 1 mark; Comment – 1 marks)
4. Experiments:
 - a. Streaming of protoplasm
 - b. Suction force due to transpiration
 - c. Mineral deficiency
 - d. Mass flow hypothesis
 - e. Ringing experiment
 - f. Hydroponics
 (Identification – 1 mark; Comment –2 marks)
5. Class Record – 5 marks

MODEL QUESTION PAPER

VI - Semester

PAPER VII: Molecular Biology, Genetic Engineering & Plant Physiology - I

I. Answer the following by choosing the correct choice:

1 x 30 = 30

1. The diameter of z-DNA is
a. 20A° b. 45 A° c. 18 A° d. 34 A°
2. Nucleoside consists of
a. Sugar + phosphate c. Sugar + purine + phosphate
b. Sugar + pyrimidine + phosphate d. Sugar + pyrimidine + purine
3. Single stranded DNA molecules are found in
a. TMV b. Rose sarcoma virus c. Small pox virus d. Bacteria
4. The 'C' value of DNA refers to
a. Total amount of DNA per haploid genome b. Total amount of DNA per Somatic cell.
c. Total amount of DNA present in heterozome d. Total amount of DNA present in Autosome
5. Plasmids are
a) Viruses c. Extra chromosomal genetic element of bacteria
b) New type of microorganisms d. Genetic element of bacteria
6. The term Bt refers to
a. *Bacillus thuringiensis* c. Bacterial transformation
b. Bacterial transcription d. Bacillus transformation
7. Okazaki fragment are produced during
a. DNA synthesis b. Protein synthesis c. RNA synthesis d. Protein metabolism
8. DNA which is transformed synthetically using enzymes is
a. Recombinant DNA b. DNA c. Complementary DNA d. RNA
9. Osmosis is possible through
a. Permeable membrane b. mpermeable membrane c. Semi-permeable membrane d. Membrane
10. Loss of water in the liquid form from the aerial parts of the plant is
a. Guttation b. Evaporation c. Transpiration d. Respiration
11. Phloem transport can be detected through
a. Microscope b. Telescope c. Autoradiography d. Radiography
12. In protoplast fusion technique which of the following enzymes are used
a) Cellulase & Pectinase b. Amylase & Pectinase c. Lipase & Pectinase d. Amylase & Lipase
13. Antibiotics are mostly obtained from
a) Viruses b. Cyanobacteria. c. Actinomycetes. d. Algae.
14. A cell becomes turgid when placed in
a. Isotonic solution b. Hypotonic solution c. Hypertonic solution d. Acidic solution
15. Loss of water from the aerial parts of plant in the form of water vapour is called
a. Guttation b. Transpiration c. Evaporation d. Respiration
16. The main force behind passive absorption of water by roots is
a. Root pressure b. Transpiration pull c. Osmotic pressure d. Evaporation

17. The diffusion of solvent molecules into the solution through a semi-permeable membrane is
 - a. Imbibition
 - b. Diffusion
 - c. Osmosis
 - d. Evaporation
18. Water potential is expressed in SI units as
 - a. Atmospheres
 - b. Bars
 - c. Pascals
 - d. Grams
19. Stomata open in the night in
 - a. C₃ Plants
 - b. C₄ Plants
 - c. CAM Plants
 - d. Hydrophytes
20. DPD equals
 - a. OP - TP
 - b. OP + WP
 - c. TP - OP
 - d. OP + TP
21. Active absorption of water by roots from soil is mostly affected by
 - a. Tension in cell sap due to transpiration.
 - b. Osmotic concentration of cell sap.
 - c. Sucking power of root hair.
 - d. Typical tissue organisation.
22. The Soil water that is available for plants is
 - a. Capillary water
 - b. Hygroscopic water
 - c. Gravitational water
 - d. Chemically bound water
23. Pulsation theory to explain Ascent of sap was proposed by
 - a. Dixon and Jolly
 - b. J.C. Bose
 - c. Curtis and Clark
 - d. Clark
24. Root pressure is maximum when
 - a) Transpiration is high and absorption is very low
 - b) Transpiration is low and absorption is very high
 - c) Transpiration is high and absorption is very high
 - d) Transpiration is low and absorption is very low
25. The cohesive force between molecules of water contributes to
 - a. Osmosis
 - b. Translocation
 - c. Plasmolysis
 - d. Ascent of sap
26. The apparatus used to measure root pressure
 - a. Photometer
 - b. Manometer
 - c. Auxanometer
 - d. Barometer
27. Which of the following is a micronutrient
 - a. Mn
 - b. N
 - c. Mg
 - d. Ca
28. Chlorosis occurs due to
 - a. Strong light
 - b) Excessive respiration
 - c. Darkness
 - d. Deficiency of Iron or Mg
29. Iron deficiency causes
 - a. Necrosis in old leaves
 - b. Dwarfness
 - c. Defoliation
 - d. Interveinal chlorosis in young leaves
30. Plants absorb Zn in the form of
 - a. Zinc Sulphate
 - b. Zinc phosphate
 - c. Zinc nitrate
 - d. Zinc Borate

II Answer any six of the following

6 x 5

1. Explain regulation of gene action in Eukaryotes
2. Explain cloning vectors
3. Explain cDNA Library.
4. Describe the process of Penicillin production.
5. Explain factors affecting rate of water absorption in plants
6. Describe the process of vein loading
7. Describe the mechanism of Transpiration in plants
8. Explain the role of minor elements in plant nutrition.

I SEMESTER
PAPER VIII –Plant Physiology – II

UNIT I:	Enzymes: Nomenclature, classification, chemical composition, prosthetic groups, Coenzymes, Cofactors, Vitamins, properties of enzymes, Mechanism of enzyme action, Enzyme kinetics, factors affecting enzyme activity, Inhibition of enzyme action (Competitive; Non Competitive, feedback), Allosteric enzymes. Nitrogen Metabolism: Sources of nitrogen, nitrogen fixation, <i>nif</i> genes, nitrate metabolism, Assimilation of ammonia, Synthesis of Amino acids and Nitrogen cycle.	45 hrs 10hrs
UNIT II:	Photosynthesis – Introduction, ultra structure of the chloroplast, photosynthetic apparatus, Principles of light absorption, Emerson's enhancement effect, photosystems I & II, Light reaction –Hill reaction, mechanism of electron and proton transport, Photophosphorylation (cyclic, non-cyclic and pseudocyclic), Carbon reactions (Calvin Cycle, C ₄ – Pathway, CAM), Factors affecting the process. Photorespiration – Organelles involved, mechanism and significance. Analytical techniques: A brief account of Colorimetry, Chromatography, Electrophoresis, Tracer Technique and Autoradiography.	10hrs
UNIT III:	Respiration – Introduction, Mechanism of aerobic respiration – glycolysis, TCA cycle, ETS and Oxidative phosphorylation, mechanism of anaerobic respiration (Alcoholic Fermentation and Lactic acid Fermentation), Pentose phosphate pathway, Respiratory Quotient and its significance, factors affecting respiration.	7 hrs
UNIT IV:	Plant growth and Growth regulators – Definition of growth, kinetics, Factors affecting growth; Phytohormones: Discovery, metabolism, Physiological effects, mode of action of auxins, gibberellins, cytokinins, ethylene and ABA. Application of these hormones in agriculture and horticulture. Plant movements – A brief account on the classification and types of movements.	8 hrs
UNIT V:	Photobiology: A brief account of dormancy, Photoperiodism, Phytochrome and its role, Florigen concept, Vernalization, biological clock and Circadian Rhythms. Stress physiology: Water stress, heat stress, salt stress and mechanisms of plant response to water and related stresses. Defence mechanism: A brief account of secondary metabolites (Phenolics, Flavonoids and alkaloids) and their role in plant defence.	10 hrs

References

1. Buchanan, B.B, Gruissem, W. and Jones, R.L. 2004. **Biochemistry and Molecular Biology of plants**. I.K. International PVT., New Delhi,
2. Dey and Harborne, J. B. (Eds.) 1977. **Plant Biochemistry**. Academic Press, New York.
3. Hall (1980), **Photosynthesis** 4th Ed. Atlas Publishers, New Delhi
4. Hall, D.O. and Rao, K.K. 1999. **Photosynthesis**. 6th edition, Published in association with the Institute of Biology, Cambridge University Press. Cambridge, U.K.
5. Harborne, T. C. 1981. **Phytochemical Methods: A Guide to Modern Techniques of Plant Analysis**. Chapman & Hall, London.
6. Hopkins, W.G. (1995). **Introduction to Plant Physiology**, John Wiley & Sons, New York.
7. Moore, T.C. 1989. **Biochemistry and physiology of Plant Hormones**. 2nd edition. Springer – Verlag, New York, USA.
8. Moore, T.C.1974. **Research Experiences in Plant Physiology: A Laboratory Manual**. Springer. Verlag, Berlin.
9. Muheyi, S and Ghosh, A.K. (2005) **Plant Physiology** New Central Book Agency (P) Ltd. 8/1 Chintamani Das Lane, Kolkata 200009. Indu

10. Plummer, D.T. 1988. **An Introduction to Practical Biochemistry**. Tata McGraw-Hill Publishing Co. Ltd., New Delhi.
11. Purohit, S.S (2009) **Biochemistry – Fundamentals and Applications**. Gobies (India)
12. Rabinowitch & Govindjee. **Photosynthesis**(1984).
13. Salisbury and Ross. (2005) **Plant Physiology**, Thomson wads worth.
14. Singhal G.S., Renger G., Sopory S.K., Irrang K.D. & Govindjee 1999. **Concepts in Photobiology: Photosynthesis & Photomorphogenesis**. Narosa Pub. House, New Delhi.
15. Stumpf, P.K. and Conn, E.E. (eds.) 1988. **The Biochemistry of Plants- A Comprehensive treatise**. Academic Press, New York.
16. Sunderajan, S. (1997). **College Botany Vol. III.**, Himalaya Publication.
17. Taiz and Zeiger (2004) **Plant Physiology 3rd Ed.** Panima Publishing Coporation New Delhi / Bangalore.
18. Taiz C. & Zeiger E(1998) **Plant Physilogy. 2ndEd.** Sinauer Associates, Inc., Publishers, Massachusetts, USA
19. Taiz, L. and Zeiger, E. 2003. **Plant Physiology. 3rd edition.** Panima Publishing Corporation, New Delhi/Bangalore.
20. Thomas B. & Vince-Prue D.1997. **Photoperiodism in plants.** 2nd Ed. Academic Press, San Diego, USA.
21. Wilkins, M.B. (eds.). 1989. **Advanced Plant Physiology.** Pitman publishing Ltd., London.
22. Wilkins. (1998). **Advanced Physilogy**, ELBS, Longman.
23. Wilson, K and Goulding, K.H. (Eds.). 1986. **A Biologists Guide to Principles and Techniques of practical Biochemistry.** Edward Arnold, London, UK.

VI SEMESTER

Practical Paper VIII –Plant Physiology

	Total Units 12
1. Estimation of chlorophyll by colorimetric analysis	02 Units
2. Separation of photosynthetic pigments by paper chromatography and measurement of Rf values.	01 Unit
3. Determination of rate of photosynthesis at different wavelengths of light.	01 Unit
4. Determination of rate of photosynthesis at different concentrations of CO ₂ .	01 Unit
5. Estimation of Ascorbic acid content in a plant sample	01 Unit
6. Determination of RQ of carbohydrates, fats and proteins.	01 Unit
7. Effect of phytohormones on plant growth (Bioassays)	03 Units
8. Study of geotropism, phototropism and hydrotropism.	02 Units
9. An Industrial visit to study the manufacture of alcohol / antibiotics / enzymes	

VI SEMESTER

PAPER VIII –Plant Physiology – II

Time 3 Hrs

Max Marks: 30

- | | |
|---|-------|
| 1. Separate the Photosynthetic pigments from sample A by paper chromatography and measure their Rf values | - 7 |
| 2. Estimate the ascorbic content in the sample B | - 7 |
| 3. Comment on Experiments C & D | - 6 |
| 4. Class Records & Field report | - 5+5 |

Scheme of Valutaion

1. Requirements – 1 Mark, Principle – 2 Marks, Procedure and Conducting the experiment – 2 Marks, Rf Values – 2 Marks
2. Requirements – 1 Mark, Principle – 1 Mark, Procedure and Conducting the experiment – 3 Marks, Result – 2 Marks)
3. Experiments
 - a) Photosynthesis at different wave lengths of light
 - b) Respirometer experiment for RQ
 - c) Anaerobic respiration
 - d) Hydrotropism
 - e) Phototropism
 - f) Geotropism (Klinostat Expt)
4. Class record & field report. 5+5

MODEL QUESTION PAPER

VI SEMESTER

PAPER VIII –Plant Physiology – II

Time : 3 Hours

Max Marks = 60

I Answer the following by choosing the correct choice

1 x 30 = 30

1. The fixation of nitrogen in root nodules of legumes takes place in the presence of an enzyme.
a. Nitrogenase b. Nitrate reductase c. Carboxylase d. Nitrite reductase
2. Amino acids synthesis in plants occurs by
a. Oxidation c. Nitrification
b. Reductive amination d. Transformation
3. Oxido-reductases catalyse
a. Oxidation – reduction reactions c. Involve group transfer
b. Hydrolytic reactions d. Isomerization reactions
4. Coenzyme – A (Co A or Co A – SH) is a derivative of
a. Riboflavin b. Pantothenic acid c. Ascorbic acid d. Vitamin B₂
5. Warburg's effect is
a. Inhibitory effect of high oxygen concentration on Photosynthesis
b. Inhibitory effect on respiration c. Nastic movements d. Photoperiodism
6. Feed back inhibition is due to
a. Accumulation of the end product which cause inhibition in the activity of the first enzyme of the series.
b. Accumulation of enzymes. c. Accumulation of substrates. d. Accumulation of co-factors.
7. The pigments which exhibits fluorescence
a. Xanthophyll b. Ubiquinone c. Chlorophyll d. Carotene
8. In pigment system II, the reaction centre is
a. P₆₈₀ b. P₇₀₀ c. P₆₇₃ d. P₇₂
9. When cell converts light energy into chemical energy, which of the following reaction would take place.
a. $ADP + ip = ATP$ c. $ATP - ip = ADP$
b. $AMP + ip = ADP$ d. $GDP + ip = GTP$
10. Kranz anatomy is found in
a. Stems of C₄ plants. c. Stems of C₃ plants.
b. Leaves of C₄ plants. d. Leaves of C₃ plants.
11. Rubisco is
a. Reductase b. Hydrogenase c. Carboxylac d. Ligase
12. The number of carbon atoms present in ribulose -biphosphate is
a. 6 b. 5 c. 4 d. 3
13. Respiration is
a. Anabolic and exergonic c. Anabolic and endergonic
b. Catabolic and exergonic d. Catabolic and Endergonic
14. In respiration of organic acid substrate, the R.Q shall be
a. Unity b. Zero c. Less than one d. More than unity
15. Number of Carbon atoms present in citric acid, Oxaloacetic acid and pyruvic acid are respectively
a. 6, 3, & 3 b. 5, 4 & 3 c. 6, 4 & 3 d. 6, 4 & 2

16. Two molecules of ATP are formed during final oxidation of
a. NADH (H⁺) b. FADH₂ c. NADPH (H⁺) d. NAD⁺
17. The first pentose sugar formed in PPP of respiration is
a. Ribulose - 5 - phosphate b. Ribose - 5 - phosphate
c. Xylulose - 5 - phosphate d. Deoxyribose - 5 - phosphate
18. The term fermentation was coined by
a. Cruickshank b. Pasteur c. Kostytcher d. Buchner
19. Zeatin is a
a. Auxin b. Gibberellins c. Cytokinin d. ABA
20. Stomatal closure is induced by
a. Auxin b. Ethylene c. Gibberellins d. ABA
21. Gibberellins bring about
a. Yellowing of leaves b. Senescence c. Internodal Elongation d. Dwarfing of tall plants
22. Natural Auxin is
a. IAA b. 2, 4 - D c. 2, 4, 5-T d. NAA
23. Avena curvature test is a bioassay for
a. Auxin b. Cytokinin c. Gibberellins d. Ethylene
24. 2,4,-D is
a. Weedicide b. Rodenticide c. Insecticide d. Nematicide
25. Which one of the following is a stress hormone?
a. Benzyl aminopurine b. Dichloro phenyl acetic acid c. Ethylene d. Abscissic acid
26. The phenomenon of photoperiodism was discovered by
a. Garner and Allard b. Ganong c. Flemming d. Altman
27. Phytochrome is
a. A non - proteinaceous pigment b. Exists in two interconvertible forms
c. An enzyme d. Found exclusively in thallophytes
28. The termed vernalization was coined by
a. Lysenko . T. D. b. Chouarad c. Gessner d. Pasteur
29. Richmond - Lang refers to
a. Ripening of fruits b. Delaying senescence c. Premature fall of leaves d. Bolting
30. Desmodium gyrans exhibits
a. Tactic movements b. Trophic movements c. Nastic movements d. Ciliary movements

II Answer any six of the following

6 x 5 = 30

1. What are enzymes? Discuss the mechanism of action of enzymes.
2. Describe biochemical reactions of Calvin's cycle.
3. Describe the process of alcoholic fermentation.
4. Describe briefly the trophic movements in plants.
5. Give an account of photorespiration.
6. Discuss the role of phytohormones in agriculture and horticulture
7. What is photoperiodism? Explain its physiology and importance.
8. Explain the role of secondary metabolites in plant defence.

5150-BUP-300-May 2010

ಸಂಖ್ಯೆ: ಎಸಿಎ-2/ಎ3/ಸೆ.ಪ/ಯು.ಜಿ /ಪರಿಷ್ಕೃತ ಪ.ಕ್ರ/2010-11,

ದಿನಾಂಕ : 18.11.2010

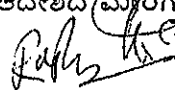
ಅಧಿಸೂಚನೆ

ವಿಷಯ: ವಿಜ್ಞಾನ ನಿಖಾಯಕ್ಕೆ ಸಂಬಂಧಪಟ್ಟ ಸ್ನಾತಕ ಪದವಿಯ ರಸಾಯನಶಾಸ್ತ್ರ ವಿಷಯದ ಸೆಮಿಸ್ಟರ್ ಪದ್ಧತಿಯ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮವನ್ನು ಜಾರಿಗೊಳಿಸುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1. ದಿನಾಂಕ 02.08.2010ರ ವಿಶೇಷ ವಿಜ್ಞಾನ ನಿಖಾಯದ ಸಭೆಯ ನಿರ್ಣಯ.
2. ದಿನಾಂಕ 04.11.2010 ರಂದು ನಡೆದ ಮುಂದೂಡಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆ ನಿರ್ಣಯ

* * *

ದಿನಾಂಕ 04.11.2010 ರಂದು ನಡೆದ ಮುಂದೂಡಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸಾಮಾನ್ಯ ಸಭೆಯಲ್ಲಿ ಕೈಗೊಂಡ ನಿರ್ಣಯದನ್ವಯ ವಿಜ್ಞಾನ ನಿಖಾಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಸ್ನಾತಕ ಪದವಿಯ ರಸಾಯನಶಾಸ್ತ್ರ ವಿಷಯದ 1 ರಿಂದ 6ನೇ ಸೆಮಿಸ್ಟರ್‌ಗಳ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮವನ್ನು ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯವು ಅಧಿಕೃತವಾಗಿ ಈ ಮೂಲಕ ಪ್ರಕಟಿಸಿದೆ.

ಆದೇಶದ ಮೇರೆಗೆ,

ಕುಲಸಚಿವರು

ಗೆ.

ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಸಂಯೋಜಿತಗೊಂಡಿರುವ ವಿಜ್ಞಾನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ರಸಾಯನಶಾಸ್ತ್ರ ವಿಷಯವನ್ನು ಬೋಧಿಸುತ್ತಿರುವ ಎಲ್ಲಾ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳು ಮೇಲ್ಕಂಡ ಕೋರ್ಸಿನ ಪಠ್ಯಕ್ರಮವನ್ನು ವಿದ್ಯಾರ್ಹತಾಪತ್ರ-2 ರಿಂದ ಒಂದು ಪತ್ರದ ಮುಖೇನ ಪಡೆಯಬಹುದಾಗಿದೆ.

ಪ್ರತಿಗಳು:

1. ಡೀನರು, ವಿಜ್ಞಾನ ನಿಖಾಯ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
2. ಮುಖ್ಯಸ್ಥರು, ರಸಾಯನಶಾಸ್ತ್ರ ವಿಭಾಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು - ಸಂಬಂಧಪಟ್ಟ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮವನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಗ್ರಂಥಾಲಯ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು Soft copy and Hard copy ಯನ್ನು ಗ್ರಂಥಪಾಲಕರಿಗೆ ಒದಗಿಸಲು ಕೋರಲಾಗಿದೆ.
3. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ), ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
4. ಸಹಾಯಕ ಕುಲಸಚಿವರು, ವಿದ್ಯಾಶಾಖೆ-1, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
5. ಉಪಕುಲಸಚಿವರು ವಿದ್ಯಾಶಾಖೆ-2, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
6. ನಿರ್ದೇಶಕರು, ಅಂಚೆ ತೆರಪಿನ ಮತ್ತು ದೂರಶಿಕ್ಷಣ ನಿರ್ದೇಶನಾಲಯ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
7. ನಿರ್ದೇಶಕರು, ಪ್ರಸಾರಾಂಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು ಮುಂಬರುವ ಗೆಜೆಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು ಕೋರಿದೆ.
8. ಗ್ರಂಥಪಾಲಕರು, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ ಗ್ರಂಥಾಲಯ - ಸಂಬಂಧಪಟ್ಟ ಪಠ್ಯಕ್ರಮವನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವೆಬ್‌ಸೈಟ್‌ನಲ್ಲಿ ಪ್ರಕಟಿಸಲು ಕೋರಿದೆ.
9. ಕುಲಪತಿಗಳ/ಕುಲಸಚಿವರ ಆಪ್ತಕಾರ್ಯದರ್ಶಿಗಳಿಗೆ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
10. ಸಮನ್ವಯಾಧಿಕಾರಿಗಳು, ಸಂಖ್ಯಾಶಾಸ್ತ್ರ ವಿಭಾಗ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.
11. ಕಛೇರಿ ಪ್ರತಿ.

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Mr. Jagath
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Note: Copy Given to Dept. of
Chemistry, PTO for Atk.

BANGALORE UNIVERSITY



B.Sc. Chemistry Syllabus

for

I to VI Semesters

(w.e.f. 2010) 2011

Department of Chemistry

Central College Campus, Bangalore - 560 001

Proceedings of the meeting of the Board of Studies in Chemistry (UG) held on 14th June 2010 in the Department of Chemistry, Central College Campus, Bangalore University, Bangalore-560001.

A meeting of the Board of Studies in Chemistry (UG) was held on Monday, the 14th of June 2010 at 10.30 am in the department for constitution of BOE and preparation of Panel of Examiners in respect of UG (B.Sc Chemistry & Biochemistry, Annual and Semester schemes) and professional course (B.E.Engineering chemistry) examinations of 2010-2011 and also to discuss about introduction of MCQ pattern of question papers for 3 year B.Sc degree course and for the approval of the draft syllabus prepared for 3 year B.Sc course to be introduced from 2010 onwards.

The Chairman welcomed the members and as per the agenda item one, placed before them the list of examiners submitted by the various colleges in response to the University Notification Vide notification No. EX-I/BOS panel/UG/PG Exams/Annual & semester/2010-2011 dated:06-02-2010. The chairman also provided the members with the lists of BOE constituted for the three previous academic years viz, 2007-08, 2008-09 & 2009-10 in respect of the above three courses and requested the members to constitute the BOE and panel of examiners in the light of the above for the 2010-2011 for B.Sc. Chemistry (Annual & Semester scheme) and B.E (Engineering Chemistry) examination of 2010-2011.

Since the BOS in Biochemistry has not yet been constituted the BOS in chemistry constituted the BOE and prepared the panel of examiners for B.Sc Biochemistry examinations of 2010-2011 as per the request of the Chairman, Department of Biochemistry.

The members after careful scrutiny constituted the BOE and prepared the panel of examiners for the B.Sc Chemistry, B.Sc Biochemistry and B.E (Engg. Chemistry) Examinations 2010-2011.

The BOS also ratified the consolidated list of examiners submitted by Dr. Bulbule, Chairman, BOE in Chemistry (2009-10 exam) as per the request of the Chairman, BOE for May/June exam of 2010.

The Chairman briefed the members about the second agenda, i.e the introduction of MCQ pattern for B.Sc degree examination and preparation of question paper in the new format for that. The matter was discussed at length in the meeting. The pros and cons of all the related aspects were also discussed. The board in principle agreed for the introduction of MCQ pattern, but unanimously resolved to request the University authorities to conduct a workshop with a larger group of teachers of all subjects involving UG (BOS) members and UG (BOE) members also to discuss the implications of introduction of MCQ pattern and to come out with a concrete solution at the earliest. BOS recommends to implement the introduction of MCQ pattern after a thorough discussion.

Then the third agenda was taken up for discussion. The Chairman informed the members that as per the direction from Bangalore University, the Chemistry syllabus for the B.Sc degree had to be revised which are proposed to be introduced from 2010 onwards. In this connection, the DOS in Chemistry, Bangalore University, Bangalore with the help of Chemistry Teacher's Forum constituted a core committee from University department and affiliated Colleges. The core group participated in workshops held on three days 11th March 2010, 30th March 2010 and 7th

April 2010 and prepared a draft copy of the revised syllabus. The syllabus was then finalized in a workshop conducted on 12th May 2010 in the presence of a wider group of Teachers represented by most of the colleges offering Chemistry at UG level. It is this syllabus that is placed before the board for scrutiny and approval.

The Board unanimously approved the syllabus after some modification.

The BOS also recommends to the University to constitute a BOS (UG) in Biochemistry as Biochemistry department is bifurcated from Chemistry department.

The Chairman finally thanked all the members for their presence and their valuable inputs for the deliberations of the day.

1. Dr. Anantha, C (Member) *Anantha C.*
2. Prof. Nusarath Zareen " *NZ*
3. Prof. Shivaiah " *Retired*
4. Prof. Chikkanna " *Chikkanna*
5. Dr. Halesh, R " *Halesh R*
6. Prof. Girija, M. S " *Girija M.S*
7. Dr. C. Krishna Kumar " *ckkr*
8. Prof. Ramesh Babu A. " *Ramesh Babu A.*
09. Prof. Siddaramappa B.R. " *Siddaramappa B.R.*
10. Prof. K. N. Mahendra (Chairman) *Mahendra KN 14/61*

**Members of the Committee for the Revision of Chemistry Syllabus for
B.Sc. degree course (Semester Scheme)**

Department of Chemistry: Central College Campus, Bangalore University, Bangalore.

Prof. K. N. Mahendra
Chairman, DOS in Chemistry
Bangalore University, Central College Campus, Bangalore - 560 001

Inorganic Chemistry Section

Prof. K. R. Nagasundar, Central College, Bangalore

Dr. V. G. Gayathri, Central College, Bangalore

Organic Chemistry Section

Prof. M A. Pasha, Central College, Bangalore

Dr. Hariprasad, Central College, Bangalore

Physical Chemistry Section

Prof. M. Farooq Ahmed, Central College, Bangalore

Prof. L. Gomathi Devi, Central College, Bangalore

Biochemistry Section

Dr. V. R. Devaraj, Central College, Bangalore

Organiser

Dr. R. Ramachandrappa
President, Chemistry Teachers' Forum, Jyotivivas College, Bangalore

Coordinator

Dr. A. Sreenivasan, National College, Basavanagudi, Bangalore

for

Chemistry Teachers' Forum : Bangalore University, Bangalore

Physical Chemistry Section

- Dr. Nandeesh, SJRC College, Bangalore
Mr. Ananth, MES College, Bangalore
Dr. Chenne Gowda, VV Puram Science College, Bangalore
Mr. C. Nagaraju National College, Gowribidanuru
Dr. N. C. Subramanyam, APS College, Bangalore
Dr. Shahintaj, Al Ameen, College, Bangalore
Dr. Girija, SSMRV College, Bangalore
Ms. Mythili, Maharani Science College, Bangalore

Inorganic Chemistry Section

- Mr. Aswantharayanappa, National College, Jayanagar, Bangalore
Dr. Donappa, MLA College, Bangalore
Mr. Ramanna, Kongadiappa College, Doddaballapura
Mr. Bulbule, KLE College, Bangalore
Dr. Nagaraju, St. Joseph College, Bangalore
Mr. Jugalle, Govt. First Grade College, K R Puram, Bangalore
Dr. Muddu Krishna, Maharani College for Women, Bangalore
Mr. Shivappa Notagar, Vijaya College, Basavanagudi, Bangalore

Organic Chemistry Section

- Mr. Arunachalam, National College, Basavanagudi, Bangalore
Dr. M. Ramaiah, NMKRV College, Bangalore
Mr. Ramesh Babu, Vijaya College, Basavanagudi, Bangalore
Mr. Devaraju, Kuvempu College, Chennapattana
Mr. Nataraja, Maharani Science College, Bangalore
Mr. Chandargi, Govt. Science College, Bangalore
Mr. L. K. Srivatsa, Vijaya College, Jayanagar, Bangalore

Biochemistry Section

- Mr. Ashraf Ali, Al Ameen College, Bangalore
Ms. Manjula, Vijaya College, Basavanagudi, Bangalore
Dr. Nanda, BMS College for Women, Bangalore
Mr. Prabanjan Kumar, APS College, Bangalore
Ms. Malini Nagaraju, Jyothi Nivas College, Bangalore
Mr. Venkata Reddy, VV Puram Science College, Bangalore

Proceedings of the Meeting of Board of Studies in Chemistry (UG)
held on Monday, the 14th June 2010 at 10.30 am
in the Department of Chemistry, Central College Campus, Bangalore-560 001.

The Chairman welcomed the members of the Board to the meeting and introduced them. He placed the agenda for the day's discussion.

Agenda: Scrutiny and approval of the Draft Syllabus for B.Sc, Chemistry Semester Scheme.

The Chairman informed the members that as per the directive from Bangalore University, the Chemistry syllabus for the B. Sc. degree had to be revised which is proposed to be introduced from 2010 onwards. In this connection, the Department of Studies in Chemistry, Central College with the help of Chemistry Teachers' Forum constituted a Core Group from University Department and affiliated Colleges. The Core Group participated in a work shop held for three days on 22.03.2010, 30.03.2010 and 07.04.2010 and prepared a Draft of the revised syllabus. The syllabus was then finalized in a workshop conducted on 12th May 2010 in the presence of a wider group of Teachers represented by most of the colleges offering Chemistry at UG level. It is this draft that is placed before the Board for Scrutiny and approval.

The Board approved the Syllabus after some modification.

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FOREWORD

As per the directive from Bangalore University, the Chemistry syllabus for the B.Sc., degree course had to be revised. Guidelines for this were provided by the Task Force Committee constituted by the University.

The Department of Studies in Chemistry, Central College, with the help of the Chemistry Teachers' Forum, constituted a Core Group involving the Teachers of the University Department and affiliated colleges. This Core Group, consisting of about forty teachers participated in a work shop held three days on 22.03.2010, 30.03.2010 and 07.04.2010 and prepared a draft syllabus keeping in view the aims of the UGC Model Curriculum in developing interdisciplinary skills in students linking general studies with professional courses and allowing both vertical and horizontal mobility and also catering to local needs.

Teachers of different branches of Chemistry, namely Inorganic, Organic, Physical and Biochemistry had separate and joint brainstorming sessions and arrived at a Draft Syllabi in Chemistry for six semesters. A paper in Biochemistry has been included in the Chemistry syllabus because it was felt that students would benefit by exposure to this interdisciplinary area.

The Chemistry Teachers' Forum played a pivotal role during the drafting of the syllabus. The Draft Syllabi in chemistry was brought to the attention of a wider group of Teachers for further refinement on 12th May 2010. The final draft incorporating the suggestions was placed before the Board of Studies in Chemistry and was approved after some modification.

CHAIRMAN
Department of Studies in Chemistry
Bangalore University
Bangalore-560 001

Structure of B.Sc. Degree Course (Triple Main/Major)

CHEMISTRY

Semester	Title of the Paper	Teaching hours/week	Duration of Examination	Marks Allotment		Total Marks
				Internal Assessment	Theory	
I	Chemistry-1 (General)	4	3	10	60	70
	Practical-1 (General)	3	3	-	30	30
II	Chemistry-2 (General)	4	3	10	60	70
	Practical-2 (Physical)	3	3	-	30	30
III	Chemistry-3 (General)	4	3	10	60	70
	Practical-3 (Organic)	3	3	-	30	30
IV	Chemistry-4 (General)	4	3	10	60	70
	Practical-4 (Inorganic)	3	3	-	30	30
V	Chemistry-5 (Organic)	3	3	10	60	70
	Chemistry-6 (Physical)	3	3	10	60	70
	Practical-5 (Organic)	3	3	-	30	30
	Practical-6 (Physical)	3	3	-	30	30
VI	Chemistry-7 (Inorganic)	3	3	10	60	70
	Chemistry-8 (Biochemistry)	3	3	10	60	70
	Practical-7 (Inorganic)	3	3	-	30	30
	Practical-8 (Biochemistry)	3	3	-	30	30

B.Sc. - I Semester

(Paper - I)

Contents

Chapter No.	Title	Number of Teaching hours
1	Mathematical Concepts for Chemistry	4
2	Quantum Mechanics and Atomic Structure	10
3	Periodic Table and Periodic Properties	10
4	Oxidation Numbers	3
5	Non-aqueous solvents	2
6	Liquids and Solutions	9
7	Classification and Nomenclature of organic compounds	3
8	Basic concepts in organic chemistry	4
9	Aliphatic hydrocarbons	10
	Total	55

Chapter 1: Mathematical Concepts for Chemistry

4 hours

Logarithmic relations: Definition, some important relations like $\log(m+n)$, $\log\left(\frac{m}{n}\right)$, $\log m^n$, change of base ($\log_e 2 \rightarrow \log_e x$). Application in the calculation of pH.

Curve sketching: How a curve is sketched with a set of points: linear and non-linear (asymptotic) with a set of points, sketching both linear and non-linear curves. Calculation of slope in the case of linear curve. Extrapolation of linear curve and arriving at a limiting value.

Parabolic curve- maximum and minimum.

Differentiation: Meaning and derivative of functions like e^x , $\log x$, $\sin x$, $\cos x$, $\frac{1}{x}$, x^2 , x^x and \sqrt{n} , $\frac{dy}{dx} = 0$ at maximum and minimum.

2nd order differentiation: for maximum and minimum (derivation from first principles not required). Rules of differentiation for $y = u + v$, $y = uv$, $y = \frac{u}{v}$ and $y = ku$, where k is constant.

Partial differentiation: Explanation, applications using the equation, $H = U + PV$ and $G = H - TS$.

Integration: Meaning and integrals of functions like x , dx , x^2 , $\frac{1}{x}$, $\frac{1}{x^2}$, $\frac{1}{x^3}$, x^n , e^x , $\sin x$ and $\cos x$. simple problems from I and II order kinetics.

Exact and inexact differentials: Examples from internal energy and enthalpy.

Definite integrals.

*Permutations and combinations-*A brief introduction.

Probability: some definitions, examples from atomic orbitals, wave functions and entropy.

Chapter 2: Quantum Mechanics and Atomic Structure

10 hours

Bohr's atomic model: (i) Assumptions, (ii) Derivation of expressions of for radius, energy and wave number for the hydrogen atom. (iii) Calculation of wave numbers of spectral lines of different series in the hydrogen spectrum. (iv) Calculation of ionisation energies of hydrogen like atoms. (v) Interpretation of the origin of discrete spectrum. Defects of Bohr's atomic model. de-Broglie's hypothesis. Heisenberg's uncertainty principle.

New Quantum Mechanics: Sinusoidal wave equation (classical wave mechanics); Schrodinger wave equation-interpretation of the terms: (i) hamiltonian operator (ii) eigen function Ψ (significance of ψ and ψ^2) (iii) eigen values.

Application of Schrodinger equation: (i) to particle in one dimensional box (ii) to the hydrogen atom (detailed solution not required). Expressing the solution as a product of $\psi_{n,l,m}(r, \theta, \phi) = \psi_n$,

$l, m, \psi_{l,m}(\theta, \phi)$

Explanation of quantum numbers (only qualitative). Radial probability distribution and angular probability distribution. Orbitals-shapes of s , p and d orbitals. Pauli's exclusion principle, Hund's multiplicity rule, aufbau principle, electronic configuration of elements (upto atomic number 60).

Chapter 3: Periodic Table and Periodic Properties

10 hours

Modern Periodic law, classification of elements in the long form periodic table into *s*, *p*, *d* and *f*-blocks, outer shell electronic configuration of these blocks.

Atomic and ionic radii, ionization energy, electron affinity and electronegativity - definition, methods of determination of electronegativity (Pauling's and Mulliken's method), trends in the periodic properties and applications in predicting and explaining chemical behavior. Comparative study of elements of groups 1, 2, 16 and 17, with respect to electronic configuration, atomic and ionic radii, ionization energy and electronegativity. Compounds of groups 1 and 2 (halides, oxides and carbonates). Diagonal relationship between Be and Al. Hydrides of groups 16 and 17.

Chapter 4: Oxidation Numbers

3 hours

Definition, difference between valency and oxidation number, computation of oxidation numbers, balancing of red-ox reactions by ion-electron method, calculations of equivalent weight of oxidizing and reducing agents.

Chapter 5: Non-aqueous solvents

2 hours

Liquid ammonia and liquid sulphur dioxide - solvent properties and typical reactions.

Chapter 6: Liquids and Solutions

9 hours

Properties of liquids: Surface tension and its determination using stalagmometer. Viscosity of a liquid and determination of coefficient of viscosity using Ostwald's viscometer. Effect of temperature on surface tension and coefficient of viscosity of a liquid (qualitative treatment only).

Solutions of liquids in liquids: Thermodynamics of ideal solutions and Raoult's law.

Non-ideal solutions: Vapour pressure-composition and temperature composition curves of ideal and non-ideal solutions. Distillation of solutions-Lever rule, azeotropes. Partial miscibility of liquids. Critical solution temperature. Immiscibility of liquids. Principle of steam distillation, Nernst distribution law and its application. Solvent extraction.

Solutions of gases in liquids: Henry's law of gas solubility and its applications

Solutions of solids in liquids: Colligative properties - Review of colligative properties, Raoult's law of relative lowering of vapour pressure and its limitations. Determination of molecular mass of a solute by (i) Berkeley-Hartley's method (π), (ii) Beckmann's method (ΔT_f) and (iii) Landsberger's method (ΔT_b). Abnormal molecular masses, vant-Hoff's factor *i* and its significance.

Chapter 7: Classification and Nomenclature of organic compounds 3 hours

Introduction; classification and IUPAC nomenclature of polyfunctional organic compounds.

Chapter 8: Basic concepts in organic chemistry

4 hours

Types of bond cleavage-arrow notations.

Electrophilic and nucleophilic reagents; Electrophiles and nucleophiles.

Electron displacement in organic molecules: Inductive, resonance and hyperconjugative effects.

Reactive intermediates: Generation, structure and stability of carbocations, carbanions, carbon free radicals and carbenes. Assigning formal charges.

Chapter 9: Aliphatic hydrocarbons

10 hours

Alkanes: Isomerism. Methods of preparation-Wurtz reaction and Corey-House Reaction. Mechanism of free radical substitution. Reactivity and selectivity of chlorination and bromination.

Conformations of hydrocarbons: Conformation analysis of ethane, propane and *n*-butane. Sawhorse and Newman projection formulae to be used.

Alkenes: Isomerism. Methods of preparation-dehydration of alcohols, dehydrohalogenation of alkyl halides, Wittig reaction-Stereoselectivity.

Reactions of alkenes: Addition of HX. Markownikov's rule; Mechanism of Markownikov's and anti-Markownikov's addition (peroxide effect). Catalytic hydrogenation, Hydroboration-trapping out with aqueous acetic acid, oxymercuration-demercuration. Epoxidation. Mechanism of: (i) Oxidation with KMnO_4 and OsO_4 ; and (ii) Ozonolysis.

Conjugated dienes (Examples with $n = 2$ & 3): 1, 3-Butadiene: 1, 2 and 1, 4-addition reactions; Diels-Alder reaction : (i) 1,3-butadiene with maleic anhydride, (ii) cyclohexadiene with 1, 2-dichloroethyne.

Alkynes: Methods of preparation-dehydrohalogenation of vicinal and geminal dihalides and higher alkynes from terminal alkynes.

Reactions of alkynes-Electrophilic addition reactions, catalytic hydrogenation, metal-ammonia reduction, oxidation with KMnO_4 , hydroboration-oxidation and polymerization. Acidic nature of terminal alkynes.



B.Sc. - II Semester**(Paper – II)****Contents**

Chapter No.	Title	Number of Teaching hours
1	Chemical Bonding	13
2	Noble gases	3
3	Compounds of some non-metals	7
4	Silicates	2
5	Thermodynamcis	14
6	Alicyclic hydrocarbons	2
7	Aromatic hydrocarbons	8
8	Organic halogen compounds	6
	Total	55

Chapter 1: Chemical Bonding

13 hours

Ionic bond: Lattice energy, Born - Haber cycle, Born - Lande equation (Derivation not required, problems on Born - Lande expression to be worked out), Calculation of lattice energies of NaCl and MgO, effect of lattice energy on solubility of ionic compounds.

Covalent bond: Valence bond approach; Hybridization and directional characteristics sp , sp^2 , sp^3 , sp^3d , sp^3d^2 , shapes of $BeCl_2$, BF_3 , $SiCl_4$, PCl_5 , SF_6 . VSEPR Theory - Shapes of CH_4 , NH_3 , NH_4^+ , H_2O , BrF_3 , ICl_2^- . *Molecular Orbital Theory:* H_2 , He_2^+ , Be_2 , N_2 , O_2 , O_2^- , O_2^{2-} , O_2^+ , CO (Bond order, stability and Magnetic properties to be discussed). Polarization concept, Fajan's rules, bond length, bond angle and bond energy, polar and non-polar molecules, dipole moment.

Weak Interactions: (i) *Hydrogen bond* - Intra-molecular and inter-molecular types, anomalous properties of HF, H_2O , NH_3 , alcohols, carboxylic acids, nitrophenols and bio-molecules

(ii) *van der Waal's forces* - noble gases and molecular crystals.

Metallic bond - Band theory, electrical properties of metals, semiconductors and insulators.

Chapter 2: Noble gases

3 hours

Introduction. Isolation of helium from natural gas, applications. Preparation, properties and structures of fluorides and oxides of xenon.

Chapter 3: Compounds of some non-metals

7 hours

Synthesis, structure and applications of compounds of the following elements:

- (i) Boron: boranes (classification), Wades Rule, diborane, boron trifluoride and borazole.
- (ii) Nitrogen: hydrazine, hydroxylamine and hydrazoic acid
- (iii) Sulphur: thionyl chloride, sulphuryl chloride and sulphur hexafluoride
- (iv) Halogens: Bleaching powder and interhalogen compounds - ClF_3 , BrF_5 , IF_7 .

Chapter 4: Silicates

2 hours

Structure of SiO_4^{4-} , classification of silicates. Zeolites-their structure and applications.

Chapter 5: Thermodynamics

14 hours

Definition of terms in thermodynamics: Types of variables, intensive and extensive properties. Types of systems - open, closed and isolated systems. Types of processes-isothermal, adiabatic, reversible and irreversible processes. Thermodynamic equilibrium. State functions, exact and inexact differentials. Concept of internal energy (the symbol U to be used), heat and work.

First law of thermodynamics: significance of internal energy and enthalpy. Work done in isothermal and adiabatic expansion and compression of an ideal gas (IUPAC sign conventions to be used).

Heat capacity of a gas at constant pressure and constant volume: relation between P, V and T in an adiabatic process to be derived. Derivation of Kirchoff's equation. Numerical problems.

Second law of thermodynamics: Limitations of I law of thermodynamics with illustrations. Need for II law of thermodynamics, different ways of stating II law with respect to heat and spontaneity. Spontaneous and non-spontaneous processes. Other forms of II law of thermodynamics. Concept of entropy and its significance-illustrations with order, disorder, physical and chemical processes and probability.

Heat engine-Carnot's cycle and derivation of the expression for its efficiency. Problems based on efficiency equation. II law in terms of efficiency (η). Change in entropy in reversible and irreversible processes. Calculation of entropy changes in reversible isothermal and reversible adiabatic processes. Phase transitions (melting point, vaporization, sublimation and polymorphic changes) in terms of entropy. Limitations of the entropy concept of spontaneity.

Gibb's free energy: Work function, chemical potential. Definition and relationship between free energy and work function. Criteria for equilibrium and spontaneous processes. Gibb's-Helmholtz equation-Derivation. Change of free energy with respect to temperature and pressure. Mention of temperature coefficient, van't Hoff isotherm, $\Delta G^\circ = -RT \ln K_p$. Problems.

Derivation of van't Hoff reaction isochore and Clausius-Clapeyron equation. Its applications to ΔT_b and ΔT_f determination (thermodynamic derivation not required).

Qualitative treatment of Nernst heat theorem and III law of thermodynamics-statement only. Elementary concept of residual entropy.

Chapter 6: Alicyclic hydrocarbons

2 hours

Cycloalkanes: Classification, nomenclature, methods of preparation, chemical reactions.

Chapter 7: Aromatic hydrocarbons

8 hours

Nomenclature of benzene derivatives; Kekule structures, resonance structures and molecular orbital theory of benzene, Huckel's rule of aromaticity (Example: cyclopentadienyl anion, cycloheptatrienyl cation, benzene, naphthalene, anthracene and phenanthrene). Antiaromaticity.

General mechanism of aromatic electrophilic substitution. Orienting influence of substituents in toluene, chlorobenzene, nitrobenzene and phenol; hyperconjugation and resonance effects of these groups; catalytic hydrogenation of aromatic compounds, Birch reduction. Side chain oxidation of toluene to benzaldehyde and benzoic acid. Oxidation of naphthalene, anthracene and phenanthrene. Diels-Alder reaction of anthracene with (i) maleic anhydride, (ii) 1,2-dichloroethene.

Alkenyl benzenes: Styrene, *cis* and *trans*-stilbenes and their preparations.

Biphenyl: Preparation-Ullmann reaction.

Chapter 8: Organic halogen compounds

6 hours

Alkyl halides: Introduction and classification: Nucleophilic substitution reactions- S_N1 and S_N2 mechanisms with energy profile diagrams. Effect of (i) nature of alkyl groups, (ii) nature of leaving groups, (iii) nucleophiles and (iv) solvents on S_N1 and S_N2 mechanisms.

Elimination reactions-E1 and E2 mechanisms; Saytzeff and Hofmann eliminations with mechanisms.

Aryl halides: Preparation by halogenation. Relative reactivity of alkyl, allyl, vinyl, aryl and aralkyl halides towards nucleophilic substitution. Generation of benzyne-trapping with dienes (Example: furan and anthracene).



B.Sc. - III Semester
(Paper - III)
Contents

Chapter No.	Title	Number of Teaching hours
1	Chemical Kinetics	8
2	Solid state	9
3	Gaseous State	7
4	Organic and Inorganic Polymers	4
5	General study of <i>d</i> - and <i>f</i> - block elements	7
6	Metallurgy	5
7	Alcohols and Thiols	7
8	Phenols	3
9	Ethers and Thioethers	3
10	Organometallic compounds	2
	Total	55

Chapter 1: Chemical Kinetics

8 hours

Reaction rates: factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light and catalyst. Order and molecularity of reactions. Mathematical expressions for zero and first order reactions to be assumed. Derivation of expression for the rate constant of a second order reaction with $a = b$ and $a \neq b$. Expression for half life of a second order reaction. Mean life for first order reaction to be mentioned. Problems on rate constant, half life period, mean life period and order of reaction.

Determination of order of reaction: differential method, method of integration, method of half life period and isolation method.

Theories of reaction rates: Effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy. Problems.

Simple collisions theory based on hard sphere model, transition state theory (equilibrium hypothesis). Expression for the rate constant based on equilibrium constant and thermodynamic aspects. Steady state approximation and Lindemann's hypothesis.

Experimental determination of kinetics of (i) inversion of cane sugar by polarimetric method, (ii) spectrophotometric method for the reaction between potassium persulphate and potassium iodide.

Chapter 2: Solid state

9 hours

Brief introduction to the structural differences between solids, liquids and gases. Definition of space lattice, unit cell. Laws of crystallography. Symmetry elements in crystals, crystal systems. Weiss and Miller indices. X-ray diffraction of crystals-derivation of Bragg's equation, problems.

Determination of the structure of NaCl by rotating crystal method.

Structure of ionic solids based on radius ratio (calculations not required). Coordination number in ionic solids. Structures of NaCl, CsCl, ZnS, CaF₂ and CaTiO₃ crystals. Schottky and Frenkel defects. Variation of properties due to defects should be mentioned. F-centers. Gemstones. Non-stoichiometric compounds (FeO, transition metal hydrides). Classification and applications of liquid crystals.

Chapter 3: Gaseous state

7 hours

Introduction: Need for Maxwell-Boltzmann distribution law, mathematical expression for both mole and molecule-explanation of the terms only. Explanation of velocity distribution curves based on this law (no derivation). Mean free path, collision frequency and collision number. Definition and expressions using SI units (no derivations). Derivation of expression for most probable speed from Maxwell-Boltzmann equation. Definitions and expressions for rms velocity and average velocity, relationships between them. Problems.

Andrew's isotherm on carbon dioxide and explanation of the curves (no experimental details). Derivation of critical constants T_c , P_c and V_c from van der Waal's equation and their experimental determination by Cagniard de La Tour method for T_c and P_c . Amagat's mean density method for V_c . Problems on the calculation of T_c , P_c and V_c , a and b .

Law of corresponding states-statements, reduced equation of state and explanation; Joule-Thomson effect-explanation. Joule-Thomson co-efficient, inversion temperature-definition (no derivation). The application of Joule-Thomson effect to the liquefaction of air and hydrogen by Linde's process.

Chapter 4: Organic and Inorganic Polymers

4 hours

Polymerization: Types-addition and condensation polymerization.

Molecular weight of polymers: Expression for weight average and number average. (Experimental determination is not required).

Preparation and applications of the following types of polymers:

1. **Plastics:** (i) Thermosetting plastics (phenol-formaldehyde)
(ii) Thermosoftening plastics (PVC)
2. **Fibers:** Acrylic, polyamide, polyester types-one example for each.
3. **Rubber:** Neoprene.
4. **Fluorocarbons:** Teflon.
5. **Silicones:**

Differences between inorganic and organic polymers.

Chapter 5: General study of d- and f- block elements

7 hours

Transition elements: Electronic configuration, atomic and ionic radii, ionization energy, oxidation states, redox potentials, spectral and magnetic properties, catalytic activity, interstitial compound formation.

Lanthanides and actinides: Electronic configuration, atomic and ionic sizes, lanthanide contraction and its consequences. Oxidation states, spectral and magnetic properties, comparison of oxidation states, complex formation and magnetic properties of d- and f- block elements. Ion-exchange method of separation of Lanthanides.

Chapter 6: Metallurgy

5 hours

Ellingham's diagrams: Salient features. Selection of reducing agent using Ellingham's diagrams.

Extraction of the following metals:

- (i) Nickel from sulphide ore
- (ii) Thorium from monazite sand
- (iii) Uranium from pitchblende
- (iv) Plutonium from nuclear waste.

Chapter 7: Alcohols and Thiols

7 hours

Alcohols: Introduction and classification. Methods of preparation-(i) reduction of aldehydes, ketones, acids and esters, (ii) hydroboration-oxidation with alkaline peroxides (iii) hydration of alkenes.

Reactions of alcohols: Acidic nature, esterification, oxidation-Mechanisms of oxidation of alcohols with KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$. Comparison of the reactivity of 1° , 2° and 3° alcohols.

Glycols: Preparation from alkenes using OsO_4 and KMnO_4 with mechanisms and from epoxides. Oxidation of glycols by periodic acid and lead tetraacetate with mechanisms.

Glycerol: Preparation from propene and oils/fats and uses.

Reactions of glycerol: (i) nitration, (ii) action of concentrated H_2SO_4 and (iii) oxidation by periodic acid.

Thiols: Nomenclature, methods of formation and chemical reactions.

Uses of dithianes. Introduction of umpolung character (reversal of polarity) in carbonyl compounds.

Chapter 8: Phenols

3 hours

Classification, acidic nature-Comparison of acidic strength of phenol with alcohols and carboxylic acids. Effect of substituents on acidity of phenols. Reactivity and substitution reactions. Mechanisms of Reimer-Tiemann and Kolbe-Schmidt reactions. Pechmann reaction.

Industrial applications of phenols: Conversion of phenol to (i) aspirin, (ii) methyl salicylate, (iii) salol, (iv) salicylic acid.

Chapter 9: Ethers and Epoxides

3 hours

Ethers: Methods of preparation-(i) dehydration of alcohols, (ii) Williamson's ether synthesis. Reactions-as Lewis bases (complexation with metal ions), cleavage and auto-oxidation-Ziesel's method.

Epoxides: Preparation using per acids, Darzen's reaction. Reactions of mono and 1, 2-disubstituted epoxides with (i) carbon nucleophiles, (ii) nitrogen nucleophiles, (iii) reduction with LiAlH_4 .

Chapter 10: Organometallic compounds

2 hours

Preparation and synthetic applications of Grignard reagents, Organolithium compounds and lithium dialkyl cuprates.



B.Sc. - IV Semester**(Paper – IV)****Contents**

Chapter No.	Title	Number of Teaching hours
1	Phase Equilibria	7
2	Surface Chemistry	4
3	Analytical Chemistry	6
4	Nuclear and Radiochemistry	8
5	Powder Metallurgy	3
6	Steel	6
7	Environmental Chemistry	4
8	Aldehydes and Ketones	8
9	Carboxylic acids and their derivatives	5
10	Tautomerism and Enolates	4
	Total	55

B.Sc. - IV Semester

Chapter 1: Phase Equilibria

7 hours

Statement and explanation of the terms with examples for phase (P), component (C) and degree of freedom (F), Definition and significance of phase rule. Application of phase rule to one component systems-water and sulphur, - modified form of phase rule to two component systems. Water-potassium iodide and lead-silver systems. Eutectic mixtures and their applications (examples: freezing mixtures, desilverisation of lead by Pattinson's method).

Chapter 2: Surface Chemistry

4 hours

Adsorption: Review of types of adsorption and factors affecting adsorption. Freundlich adsorption and Langmuir's adsorption isotherms. Langmuir's isotherm to be derived. BET equation (derivation not required), applications of adsorption.

Catalysis: Characteristics, types of catalysis-homogeneous and heterogeneous catalysis with examples. Mechanisms of catalysis (intermediate compound theory and adsorption theory).

Homogeneous catalysis: Acid-base catalysis, enzyme catalysis.

Heterogeneous catalysis: surface reactions, unimolecular, bi-molecular surface reactions. pH dependence of rate constant of catalysed reactions.

Autocatalysis.

Chapter 3: Analytical Chemistry

6 hours

Errors-classification, accuracy and precision. Significant figures and computation.

Organic reagents in inorganic analysis- Advantages and uses of:

- (i) EDTA in the estimation of calcium (volumetry)
- (ii) Oxine in the estimation of magnesium (gravimetry)
- (iii) DMG in the estimation of nickel (gravimetry),
- (iv) *o*-phenanthroline in the estimation of iron (colorimetry)

Electrogravimetric estimation of copper, flame photometric determination of sodium and potassium.

Chapter 4: Nuclear and Radiochemistry

8 hours

Nucleus - Structure and stability, binding energy calculations. Instability of the nuclei, radioactive decay law, half-life-Numerical problems. Radioactive equilibrium, radioactive series. Artificial radioactivity - nuclear reactions induced by γ -radiation α , n , p , and d particles. Nuclear fission and fusion. Nuclear reactors, Breeder reactors, atomic energy programme in India. Isotopes - use of radioisotopes in tracer technique, agriculture, medicine, food preservation and carbon dating-Numerical problems.

Chapter 5: Powder Metallurgy**3 hours**

Advantages of powder metallurgy and applications. Methods of production of metal powders. Production of tungsten powder from Wolframite.

Chapter 6: Steel**6 hours**

Iron - carbon phase diagram; Austenite, ferrite, cementite, and pearlite phases.

Alloy steels - influence of Si, Mn, Cr, Ni, Ti and W on the properties of steel.

Ferro alloys - production of ferrochrome, ferromanganese and ferrosilicon and their applications.

Carbon steel - classification. Heat treatment: hardening, casehardening, carburizing nitriding, tempering and annealing.

Chapter 7: Environmental Chemistry**4 hours**

Depletion of ozone in the stratosphere: Causes and remedial measures. The green house effect and its consequences. Acid rain; photochemical smog. Treatment of sewage and industrial effluents. Disposal of radioactive wastes.

Chapter 8: Aldehydes and Ketones**8 hours**

Methods of preparation: Aldehydes from acid chlorides-Rosenmund reaction, Gattermann-Koch reaction. Ketones from nitriles, carboxylic acids with alkyl lithium, acid chlorides with metal alkyls and from esters.

Mechanisms of: aldol condensation, Perkin condensation, Knoevenagel condensation, benzoin condensation and acetal formation. General mechanism of condensation with ammonia and its derivatives ($\text{NH}_2\text{-R}$; $\text{R} = \text{-NH}_2, \text{-OH}, \text{-NH-CO-NH}_2$).

Reduction: Mechanisms of Clemmensen and Wolff-Kishner reductions, reduction by LiAlH_4 and NaBH_4 . Mannich reaction.

Chapter 9: Carboxylic acids and their derivatives.**5 hours**

Classification upto ω -carboxylic acids.

Preparation: Hydrolysis of nitriles with mechanism.

Acidic strength-effect of substituents on the strength of aliphatic and aromatic carboxylic acids.

Reactions: formation of esters, acid chlorides, amides and anhydrides, Hell-Vollhardt-Zelinski reaction, decarboxylation and reduction.

Di and tri carboxylic acids: Action of heat on dicarboxylic acids, reactions of tartaric acid and citric acid.

Reactions of acid chlorides, acid anhydrides, esters and amides. Mechanism of ester hydrolysis-acid and base catalysed (acyl O-cleavage: $\text{B}_{\text{AC}2}$, $\text{A}_{\text{AC}2}$; alkyl O-cleavage $\text{A}_{\text{AL}1}$ mechanisms).

Chapter 10: Tautomerism and Enolates**4 hours**

Tautomerism in carbonyl compounds: acidity of α -hydrogen atoms, halogenation of enolisable aldehydes and ketones.

Active methylene compounds: Preparation and synthetic applications of diethyl malonate, ethyl acetoacetate and acetyl acetone.



B.Sc. - V Semester
(Organic Chemistry: Paper V)

Contents

Chapter No.	Title	Number of Teaching hours
1	Stereochemistry	8
2	Amines	5
3	Heterocyclic compounds	4
4	Chemistry of Natural Products	10
5	Spectroscopy of Organic compounds	8
6	Industrial Organic Chemistry	5
	Total	40

B.Sc. - V Semester (Organic Chemistry)

Chapter 1: Stereochemistry

8 hours

Elements of symmetry, chirality, stereogenic centre. Fischer projection formulae.

Enantiomers: Optical activity; use of $+/-$, d/l and D/L notations. Properties of enantiomers, chiral and achiral molecules with two stereogenic centers. Meso compounds. Cahn-Ingold-Prelog sequence rules: R, S system of nomenclature.

Diastereomers: threo and erythro diastereomers.

Racemisation and resolution. Relative and absolute configuration.

Optical isomerism due to restricted rotation about single bonds-diphenyl systems.

Geometric isomerism: Determination of configuration of geometric isomers. Cis & trans, E, Z system of nomenclature. Geometric isomerism in oximes.

Alicyclic compounds: Conformations of four to eight membered cycloalkanes and disubstituted cyclohexanes.

Bicyclic systems: Nomenclature and conformations of decalins and norbornane.

Chapter 2 : Amines

5 hours

Classification. Preparation of alkyl and aryl amines-reductive amination of carbonyl compounds, Gabriel phthalimide synthesis and Hofman bromamide reaction.

Basicity of amines: Inductive, resonance, steric and solvation effects on the basicity of amines. Reaction of amines as nucleophiles. Distinguishing reactions of 1° , 2° and 3° amines. Diazotization and synthetic applications of diazonium salts. Sandmeyer's reaction. (conversion to chlorobenzene, bromobenzene and benzonitrile), hydrolysis, reduction (to phenyl hydrazine and aniline), coupling reactions to give azo dyes (p -hydroxyazobenzene and 1-phenylazo-2-naphthol).

Chapter 3 : Heterocyclic compounds

4 hours

Introduction, classification, structures, resonance and aromatic character of furan, pyrrole, thiophene and pyridine. Methods of preparation and reactions of pyrrole, furan, thiophene, pyridine. Mechanism of electrophilic substitution reactions. Comparison of basicity of pyrrole, pyridine and piperidine. Preparation and reactions of indole, quinoline and isoquinoline.

Chapter 4 : Chemistry of Natural Products

10 hours

Carbohydrates: Introduction and classification.

Monosaccharides: Aldoses, structures of all the D-aldohexoses. Elucidation of open chain structure of D-glucose. Mechanism of mutarotation and anomeric effect. Elucidation of ring structure of D-glucose in detail.

Ketoses: Fructose, interconversion of glucose and fructose.

Disaccharides: Glycosidic bond. Structures of maltose, lactose and sucrose-Haworth and conformational structures.

Terpenes and terpenoids: Occurrence, classification and isoprene rule. Elucidation of structure and synthesis of citral and zingiberene. Structures of limonene, menthol, α -terpineol, camphor, β -carotene, Vitamins-A and their uses.

Alkaloids: Introduction, classification and general characteristics. Structural elucidation and synthesis of nicotine. Structures and uses of ephedrine, caffeine, cocaine, atropine, quinine and morphine.

Chapter 5 : Spectroscopy of Organic compounds

8 hours

UV-Visible spectroscopy: Introduction. Chromophores and auxochromes; blue shift and red shift. Graphical representation of spectra of 1, 3-butadiene, benzene and lycopene. Influence of conjugation on UV absorption-Comparison of UV spectra of acetone and methyl vinyl ketone.

IR spectroscopy: Introduction. Stretching frequencies of $-\text{OH}$ (free and H-bonded), alkyl $-\text{C}-\text{H}$, $\text{C}\equiv\text{C}$, $\text{C}=\text{C}$, $\text{C}-\text{C}$, $\text{C}=\text{O}$ and $\text{C}-\text{O}$ groups (by taking suitable examples). Graphical representation of IR spectra of benzoic acid and methyl benzoate.

NMR spectroscopy: Basic principles of proton magnetic resonance: Nuclear magnetic spin quantum number I , influence of the magnetic field on the spin of nuclei, spin population, saturation using radio frequency. Nuclear magnetic resonance. chemical shift (δ values), uses of TMS as reference. Nuclear shielding and deshielding effects. Equivalent and non-equivalent protons. Effect of electronegativity of adjacent atoms on chemical shift values. Spin-spin splitting and spin-spin coupling (qualitative treatment only).

Applications of NMR spectroscopy including identification of simple organic molecules.

Examples: Shielding and deshielding effects for (i) methane (ii) CH_3-Cl (iii) CH_2Cl_2 (iv) CHCl_3 .

Spin-spin coupling in (i) Cl_2CHCHO (ii) 1,1,2-trichloroethane (iii) $\text{CH}_3\text{CH}_2\text{Cl}$.

Chapter 6 : Industrial Organic chemistry

5 hours

Synthetic dyes: Introduction and classification. Colour and constitution. Synthesis of congo red, malachite green, alizarin and indigo.

Drugs: Chemotherapy, classification of drugs. Synthesis and uses of paracetamol, diclofenac, ranitidine, sulphanilamide and chloramphenicol.

Introduction to Green Chemistry: Principles of Green chemistry and its application to the synthesis of ibuprofen.



B.Sc. - V Semester
(Physical Chemistry: Paper VI)

Contents

Chapter No.	Title	Number of Teaching hours
1	Electrochemistry	15
2	Ionic Equilibria	3
3	Physical properties and Molecular structure	5
4	Chemical Spectroscopy	12
5	Photochemistry	5
	Total	40

B.Sc. - V Semester (Physical Chemistry)

Chapter 1: Electrochemistry

15 hours

Definition of specific conductance, κ , equivalent conductance, Λ and molar conductance, μ in both CGS and SI units. Methods of determination of specific conductance. Evaluation of equivalent and molar conductance. Problems only in SI units. Variation of specific and equivalent/molar conductance with dilution. Strong and weak electrolytes. Conductometric titrations (only acid-base type, no mixture of acids).

Transport numbers: definition - determination by moving boundary method. Causes of abnormal transport numbers observed in certain systems. Problems on transport numbers.

Kohlrausch's law and its applications: (i) evaluation of Λ_{∞} from Λ_{+} and Λ_{-} (ii) evaluation of degree of dissociation of a weak electrolyte (iii) evaluation of Λ_{∞} of a weak electrolyte (iv) determination of solubility from conductance of saturated solutions of sparingly soluble salts (AgCl and BaSO_4). Problems based on these.

Limitations of Arrhenius theory: qualitative account of Debye-Huckel theory, Debye-Huckel-Onsager equation for aqueous solutions of 1:1 electrolytes. Verification of DHO equation.

Galvanic cell: conventions of representing galvanic cells-reversible and irreversible cells, derivation of Nernst equation for single electrode potential (free energy concept).

Weston-cadmium cell: Determination of emf of a cell by compensation method. Determination of E° of Zn/Zn^{2+} and Cu/Cu^{2+} electrodes. Liquid junction potentials, elimination of liquid junction potential.

Types of electrodes: Metal and gas electrodes (chlorine), metal/metal insoluble salt electrodes, redox electrodes. Reference electrodes-standard hydrogen electrode, calomel electrode, quinhydrone electrode and glass electrode. Determination of pH using these electrodes.

Numerical problems.

Concentration cells: (i) emf of concentration cells (ii) determination of solubility of sparingly soluble salts and numerical problems. Redox electrodes, emf of redox electrodes. Potentiometric titration involving only redox systems.

Chapter 2: Ionic equilibria

3 hours

Hydrolysis of salts of weak acids and weak bases. Ionic product of water. Relationship between K_h , K_w , K_a and K_b . Degree of hydrolysis and its relationship with K_h . Effect of temperature and dilution on degree of hydrolysis. pH of salt solutions. Problems.

Common-ion effect, buffers, buffer action and buffer capacity. pH of buffers. Henderson's equation and its derivation. Solubility product and ionic product in precipitation and in qualitative analysis.

Analytical and biological applications of buffers.

Chapter 3: Physical properties and Molecular structures

5 hours

Polarization and orientation of dipoles in an electric field: Dipole moment. Induced dipole moment (experimental determination of dipole moment not included). Clausius-Mossotti equation (only statement). Dipole moment and structure of molecules (planar and non-planar).

Magnetic properties-paramagnetic, diamagnetic and ferromagnetic systems. Electrical properties of solids and their applications.

Chapter 4: Chemical Spectroscopy

12 hours

The interaction of radiation with matter. Regions of electromagnetic spectrum and associated spectroscopic techniques.

Origin of molecular spectra: Born-Oppenheimer approximation.

Rotational spectra of diatomic molecules: Relationship between internuclear distance and moment of inertia. Expression for rotational energy. Numerical problems. Criterion for absorption of radiation-selection rule.

Vibrational spectra: Hooke's law- Expression for the frequency of SHO-force constant and its significance. Expression for vibrational energy levels of SHO. Zero point energy, numerical problems. Degree of freedom of polyatomic molecules-modes of vibration for CO₂ and H₂O molecules.

Raman spectra: Concept of polarisability. Pure rotation, vibration, qualitative study. Stokes and anti-Stokes lines-selection rules.

Advantages of Raman spectroscopy over IR spectroscopy.

Electronic spectra: Potential energy curves for bonding and antibonding molecular orbitals. Electronic transitions - qualitative description of non-bonding orbitals and transitions between them. Selection rules and Franck-Condon principle.

Chapter 5: Photochemistry

5 hours

Laws of photochemistry. Grotthus-Draper law, Stark-Einstein law, differences between photophysical and photochemical processes with examples. Comparison of photochemical and thermal reactions. Quantum yield of photochemical combination of (i) H₂ and Cl₂ (ii) H₂ and Br₂ (iii) dissociation of HI (iv) dimerisation of anthracene. Photosensitization, photostationary equilibrium. Singlet and triplet states. Fluorescence, phosphorescence, luminescence, bioluminescence and chemical sensors.

Beer-Lambert's law and its applications. Numerical problems on absorption coefficient and molar extinction coefficient.



B.Sc. - VI Semester
(Inorganic Chemistry: Paper VII)

Contents

Chapter No.	Title	Number of Teaching hours
1	Coordination and Organometallic compounds	14
2	Bioinorganic Chemistry	3
3	Industrial Materials	14
4	Chemistry of Newer Materials	9
	Total	40

B.Sc. - VI Semester (Inorganic Chemistry)

Chapter 1: Coordination and Organometallic compounds

14 hours

Coordination compounds, ligands and their classification, coordination number, nomenclature of coordination compounds, detection of complex formation. Theories of structure and bonding – Werner's Theory, EAN rule, Valence bond theory, crystal field theory (octahedral, tetrahedral and square planar complexes). Crystal field splitting and crystal field stabilization energies. Magnetic properties of $[\text{CoF}_6]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{Fe}(\text{CN})_6]^{3-}$. Spectral properties of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Co}(\text{H}_2\text{O})_6]^{3+}$, $[\text{CoCl}_4]^{2-}$. Isomerism-structural and stereoisomerism.

Organometallic compounds – ligands, classification (hapticity); synthesis and structure of a) $\text{K}[\text{PtCl}_3(\eta^2\text{-C}_2\text{H}_4)]$, $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)_2]$, b) Metal carbonyls – $\text{Cr}(\text{CO})_6$, $\text{Co}_2(\text{CO})_8$, $\text{Mn}_2(\text{CO})_{10}$; eighteen electron rule and its deviations with examples.

Applications of coordination/organometallic compounds: cis-platin in cancer therapy, $\text{Na}_2\text{Ca EDTA}$ in the treatment of heavy metals (Pb, Hg) poisoning, Wilkinson's Catalyst in alkene hydrogenation, Monsanto acetic acid process.

Chapter 2: Bioinorganic Chemistry

3 hours

Essential and trace elements in biological systems, metallo-porphyrins with special reference to haemoglobin, myoglobin and chlorophyll. Role of cyanocobalamin in living systems.

Chapter 3: Industrial Materials

14 hours

Refractories: Properties, classification, determination of PCE values.

Abrasives – classification, applications, hardness, manufacture and importance of carborundum and tungsten carbide.

Glass: Properties, types, manufacture of soda glass. Borosilicate, metallic glass, optical glasses and polycarbonate glass. Safety glass, fire and bullet proof glasses.

Ceramics: Raw materials, varieties of clay, production of ceramic ware, glazing, insulators.

Cement: Raw materials grades, manufacture of Portland cement (including fly ash as raw material), setting process.

Paints and Varnishes: Constituents of oil and emulsion paints and their role, constituents of varnishes.

Fuels: Characteristics, Calorific value and its determination using bomb calorimeter, Coal-Varieties, Gaseous fuels-advantages, constituents and their significance, production of Coal gas and LPG. Octane number.

Explosives: Classification, preparation of dynamite and TNT

Propellants: Characteristics, classification and their applications.

Chapter 4: Chemistry of Newer materials

9 hours

Conducting polymers: Definition and examples. Conducting polyanilines, polyacetylenes. Qualitative treatment of doping, electroluminescence.

Properties: elasticity with high electrical conductivities, Engineering and biological applications.

Super conductors: Definition, type 1, type 2 and atypical. Preparation of ceramic super conductors, BCS theory (qualitative treatment only) and applications of super conductors.

Fullerenes: Definition, isolation of C_{60} . Structure and Chemical reactions (redox reactions, electrophilic aromatic substitution and bromination) of C_{60} . Commercial uses of C_{60} . Structure of carbon nanotubes.

Nanomaterials: Introduction. Different methods of production: Sol gel synthesis, inert gas condensation, mechanical alloying, plasma synthesis, electrodeposition and applications.



B.Sc. - VI Semester
(Biochemistry: Paper-VIII)
Contents

Chapter No.	Title	Number of Teaching hours
1	Introduction to Biochemistry	2
2	Carbohydrates	4
3	Lipids	4
4	Proteins	5
5	Nucleic acids	3
6	Enzymes	4
7	Biological oxidation	3
8	Metabolism	7
9	Molecular Biology	4
10	Hormones	2
11	Biochemical techniques	2
	Total	40

B.Sc. - VI Semester (Biochemistry)

Chapter 1: Introduction to Biochemistry

2 hours

Development of biochemistry as a discipline, elemental and biochemical composition of living organisms. Role of water in biochemical systems.

Chapter 2: Carbohydrates

4 hours

Structure and biological importance of derivatives of monosaccharides—amino sugars, sugar acids, sugar phosphates, N-acetylmuramic acid (NAMA) N-acetylneuraminic acid (NANA).

Structure and biological importance of oligosaccharides – isomaltose, cellobiose, trehalose.

Polysaccharides – source, comparative account of partial structure and biological function of starch, glycogen, cellulose, chitin and inulin.

Chapter 3: Lipids

4 hours

Structure, nomenclature and biological importance of fatty acids-saturated and unsaturated, triglycerides-simple, mixed and phosphoglycerides, sphingolipids- ceramide.

Definition and significance of saponification number, iodine number and rancidity

Micelles- critical micellar concentration (CMC), formation of mono and bilayers of lipids,

Liposomes-definition and applications.

Clinical significance of lipoproteins and cholesterol.

Chapter 4: Proteins

5 hours

α - Amino acids: classification on the basis of polarity of R – groups, ionic properties and reaction of amino acids. Essential and non essential amino acids. Peptide bond and its planarity.

Proteins: biological importance, classification based on structure and composition.

Levels of organization of proteins – primary structure, secondary structure (α – helix-triple helix eg. collagen and β – pleated), tertiary structure and forces stabilizing it, quaternary structure.

Denaturation and renaturation-Thermal denaturation-Aufinsen's experiment with ribonuclease.

Chapter 5: Nucleic acids

3 hours

Types: Components of nucleic acids, bases, nucleosides and nucleotides.

Polynucleotides

Structure of DNA (Watson - Crick model) and RNA. Biological roles of DNA and RNA

Protein-nucleic acid interaction-chromatin and viral nuclear capsid.

Chapter 6: Enzymes

4 hours

Characteristic features (mention of ribozymes), comparison between biological and non biological catalyst.

Classification (EC Code number not required), active site, specificity, cofactors, Fischer and Koshland models.

Enzyme Kinetics – factors affecting rate of enzymatic reactions.

Allosteric enzymes- definition, example and significance.

Competitive and non competitive inhibition.

Chapter 7: Biological oxidation**3 hours**

Bioenergetics: ATP and other high energy compounds. Energy coupling in biological reactions. Stepwise process of biological oxidation. Mitochondrial electron transport chain, oxidative phosphorylation. Substrate level phosphorylation.

Chapter 8: Metabolism**7 hours**

Catabolism and anabolism: Carbohydrate metabolism, glycolysis, fate of pyruvate. TCA cycle, energetics. Gluconeogenesis.

Fatty acid metabolism – β oxidation pathway, energetics.

Protein metabolism – general aspects of amino acids degradation – deamination, transamination and decarboxylation. Urea cycle.

Chapter 9: Molecular biology**4 hours**

Central dogma of molecular biology. Semi conservative replication and mechanism of replication, transcription, translation.

DNA Fingerprinting, sequencing-Its applications in Human genome mapping.

Chapter 10: Hormones**2 hours**

Hormones: Definition. Classification into a) amino acid derivatives b) peptide and polypeptide hormones c) Steroid hormones with examples and functions.

Role of insulin and glucagon in glucose metabolism.

Mediators of hormone action- Ca^{2+} , cyclic AMP.

Chapter 11: Biochemical techniques**2 hours**

Principle and applications of electrophoresis. Column chromatography, ion exchange, paper and TLC.



Chemistry Practicals for B.Sc. Course

I Semester: Practical 1 (General chemistry)

3 hours per week

1. Calibration of glass wares: (i) Pipette (ii) Burette (iii) Volumetric flask
2. Estimation of potassium permanganate using standard sodium oxalate solution.
3. Estimation of ferrous ammonium sulphate using standard potassium dichromate solution with potassium ferricyanide as an external indicator.
4. Estimation of ferrous ammonium sulphate using standard potassium dichromate solution with diphenyl amine as an internal indicator.
5. Estimation of sodium thiosulphate using standard potassium dichromate solution.
6. Estimation of iodine using sodium thiosulphate and standard potassium dichromate solution.
7. Determination of the percentage of available chlorine in the given sample of bleaching powder.
8. Determination of percentage of manganese dioxide from pyrolusite ore.
9. Estimation of chloride by Mohr's method (using potassium chromate as an adsorption indicator).
10. Estimation of chloride by Volhard's method.
11. Estimation of ferrous and ferric iron in a given mixture using standard potassium dichromate solution.
12. Estimation of nitrogen in an ammonium salt using sodium hydroxide solution and standard oxalic acid.
13. Estimation of carbonate and bicarbonate in a given mixture.

Note: Standard solutions to be prepared for experiments 2 to 6.

II Semester: Practical 2 (Physical chemistry)

3 hours per week

1. Determination of the density using specific gravity bottle and viscosity of a liquid using Ostwald's viscometer.
2. Determination of percentage composition of a binary liquid mixture by viscosity method.
3. Determination of molar mass of polymer by viscosity method.
4. Determination of the density using specific gravity bottle and surface tension of a liquid using Stalagmometer.
5. Determination of molar mass of a non-electrolyte by Walker-Lumsden method.
6. Determination of degree of dissociation of an electrolyte by ebullioscopic method.

7. Determination of distribution coefficient of iodine between water and carbon tetrachloride.
8. Determination of distribution coefficient of acetic acid between water and butanol.
9. Determination of distribution coefficient of benzoic acid between water and toluene.
10. Effect of surfactants on the surface tension of water (Stock solution to be given).

III Semester: Practical 3 (Organic chemistry)

3 hours per week

Preparation and purification of organic compounds

1. Recrystallisation and determination of melting point of solids (mixed melting point determination and its importance may be mentioned).
2. Simple distillation and determination of boiling point of liquids.
3. Purification of solids by sublimation.

One stage preparation

(Preparation, recrystallisation and melting point determination of the recrystallised sample)

4. Preparation of aspirin from salicylic acid.
(Note: Acetic anhydride is to be prepared freshly by distilling acetyl chloride and sodium acetate mixture).
5. Preparation of paracetamol from *p*-aminophenol.
6. Preparation of dibenzalacetone from benzaldehyde (using acetone-alcoholic sodium hydroxide).
7. Preparation of *p*-aminobenzoic acid from *p*-nitrobenzoic acid.
8. Preparation of *m*-dinitrobenzene from nitrobenzene.
9. Preparation of benzoic acid from toluene.

Two stage preparations

10. Preparation of *p*-bromoaniline from acetanilide.
11. Preparation of *p*-nitroaniline from acetanilide.
12. Preparation of *m*-nitrobenzoic acid from methyl benzoate.
13. Preparation of methyl orange/methyl red by diazotization and coupling.

Chromatography

14. Paper chromatography: Extraction of spinach (using 1:1 alcohol and Whatmann filter paper)-To be performed by the students.
15. Thin layer chromatography: Separation of green leaf pigments/separation of a mixture of two organic compounds.
16. Column chromatography: Separation of a mixture of two organic compounds.

IV Semester: Practical 4 (Inorganic chemistry)**3 hours per week**

1. Systematic semi-micro qualitative analysis of a mixture of two simple salts (with no interfering radicals).
2. Separation of metal ions (Cu^{2+} , Co^{2+} , Ni^{2+} , Fe^{2+}) using paper chromatography and calculation of R_f values (To be performed by the students)
3. Separation of Mg (II) and Fe (II) by solvent extraction technique.
4. Effluent analysis.

V Semester: Practical 5 (Organic chemistry)**3 hours per week**

1. Organic qualitative analysis of mono functional organic compounds through functional group analysis. Determination of physical constant. Preparation and characterization of a suitable derivative.
2. Isolation of lycopene from tomatoes.
3. Isolation of caffeine from tea leaves.

V Semester: Practical 6 (Physical chemistry)**3 hours per week**

1. Determination of velocity constant for acid catalysed hydrolysis of methyl acetate and determination of energy of activation.
2. Determination of velocity constant for the saponification of ethyl acetate ($a = b$).
3. The study of kinetics of potassium persulphate and potassium iodide colorimetrically.
4. Determination of equivalent conductivity of 0.1 N sodium chloride and verification of DHO equation.
5. Determination of dissociation constant of monochloroacetic acid by conductivity method.
6. Conductometric titration of hydrochloric acid with sodium hydroxide.
7. Potentiometric titration of potassium dichromate with ferrous ammonium sulphate.
8. Determination of Critical Micellar Concentration (CMC) by conductivity method.
9. Determination of pK_a of a weak acid by pH metric method.
10. To construct the phase diagram of two component system (Ex. diphenyl amine-benzophenone) by cooling curve method.
11. Determination of percentage of sodium chloride by miscibility temperature method.
12. Determination of transition temperature of a salt hydrate by thermometric method.
13. Estimation of Cu^{2+} colorimetrically and verification of Beer-Lambert's law.

VI Semester: Practical 7 (Inorganic chemistry)**3 hours per week**

1. Estimation of percentage of iron in haematite using diphenylamine as an internal indicator.
2. Estimation of calcium in lime stone.
3. Estimation of copper in brass.
4. Estimation of zinc using EDTA.
5. Estimation of total hardness of water using EDTA.
6. Gravimetric estimation of barium as barium sulphate.
7. Gravimetric estimation of nickel as nickel dimethyl glyoximate.
8. Preparation of cuprammonium sulphate and determination of λ_{\max} and hence CFSE.
9. Preparation of sodium trioxalatoferrate (III) and estimation of iron.
10. Estimation of nickel using EDTA and standard zinc sulphate.
11. Preparation of ferrous oxalate and its analysis (both iron and oxalate).

VI Semester: Practical 8 (Biochemistry)**3 hours per week**

1. Preparation of buffers and determination of their pH values using pH meter.
2. Estimation of reducing sugars by Hegdorn-Jensen method.
3. Estimation of lactose in milk by Nelson-Somyogi's method.
4. Estimation of creatinine by Jaffe's method.
5. Estimation of inorganic phosphate in food samples by Fiske-Subbarow method.
6. Estimation of total reducing sugars in honey by DNS (dinitrosalicylic acid) method.
7. Isolation of lactose and casein from milk and estimation of lactose by colorimetric method.
8. Estimation of α -amino acids using ninhydrin by colorimetric method.
9. Determination of blood group.
10. Separation of α -amino acids by paper chromatography.
11. Isolation of DNA from onions.
12. Estimation of cholesterol by colorimetric method.

References

Inorganic Chemistry

1. Advanced Inorganic Chemistry, 6th Edition
F. A. Cotton, G. Wilkinson, C. A. Murillo and M. Bochmann-John Wiley & Sons, 1999.
2. Concise Inorganic Chemistry, 5th Edition
J. D. Lee, Blackwell Science, 2001.
3. Inorganic Chemistry, 4th Edition
J. E. Huhe, E. A. Keiter and R. I. Keiter, Pearson Education Asia, 2000
4. Inorganic Chemistry, ELBS 2nd Edition
D. F. Shriver, P. W. Atkins and C. H. Langford, Oxford Univ. Press 2002.
5. Environmental Chemistry
A. K. De, Wiley Eastern Ltd., 1999.
6. Nuclear and Radiation Chemistry
Sharma B. K, Goel Publishing House, 1987.
7. Modern Inorganic Chemistry
W. L. Jolly, McGraw Hill Co.
8. Principles of Inorganic Chemistry
B. R. Puri and L. R. Sharma, Jauhar S. P-S. N. Chand & Co., 1998
9. Inorganic Chemistry, 3rd Edition (ISE)
A G Sharpe, Addison Wesley, 1989.
10. Basic Inorganic Chemistry, 3rd Edition
F. A. Cotton, G. Wilkinson, P. L. Gaus-John Wiley & Sons, 1995.
11. Essential Chemistry, International Edition
R. Chang, McGraw Hill Co, 1996.
12. University Chemistry, 4th Edition (ISE)
B. H. Mahan & R. J. Myers, Addison Wesley, 1989.
13. Essential Trends in Inorganic Chemistry
C. M. P. Mingos, Oxford Univ Press, 1998
14. Chemistry, 3rd Edition
P. Atkins & L. Jones, W. H. Freeman & Company, 1997.
15. Modern Chemistry, 4th Edition
D. W. Oxley, H. P. Gills & N. H. Nachtrieb, Saunders College Publishing, 1998.

Organic Chemistry

1. Organic Chemistry, Paula Yurkanis Bruice, Prentice Hall, 2005.
2. Advanced Organic Chemistry
F. A. Carey and R. J. Sundberg, Plenum, 1990.
3. Organic Chemistry, Vol I & II
I. L. Finar, ELBS, 1986, 1991, 2005
4. Organic Chemistry
R. T. Morrison and R. N. Boyd, Prentice Hall, 1991
5. Organic Chemistry, Maitland Jones, Jr., W. W. Norton & Company
6. Advanced Organic Chemistry
O. S. Bahl and A. Bahl, S. Chand & Co. 1995
7. Advanced Organic Chemistry

- J. March, John Wiley & Sons, 2008.
8. Understanding Organic Reaction Mechanisms
A. Jacobs, Cambridge Univ Press, 1998.
 9. Organic Chemistry
M. K. Jain, Nagin & Co., 1987
 10. A Guide to Mechanism in Organic Chemistry
P. Sykes, Orient Longman, 2005.
 11. Organic Spectroscopy
V. R. Dani, Tata McGraw Hill, 1998.
 12. Organic Spectroscopy
W. Kemp, ELBS IV Edition, 1998.
 13. Synthetic Drugs
G. R. Chatwaal, Himalaya Publications, 2000.

Physical Chemistry

1. Physical Chemistry, 7th Edition - P. W. Atkins and Julio de Paula, Oxford Univ. Press, 2002.
2. The Elements of Physical Chemistry, 3rd Edition - Peter Atkins, Oxford Univ. Press, 2000.
3. Physical Chemistry - A molecular Approach
Donal A. McQuarrie and John D. Simon, Viva Low-priced Student Edition, 2001.
4. Introduction to Physical Chemistry, 3rd Edition
Mark Ladd, Cambridge Low-Priced Edition, 1999.
5. Text Book of Physical Chemistry - S. Glasstone, MacMillan India Ltd., 1998.
6. Principles of Physical Chemistry, 4th Edition
B. R. Puri and L. R. Sharma and M. S. Pathania, S. L. N. Chand & Co., 1987
7. Text Book of Physical Chemistry - P. L. Soni., S. Chand & Co., 1993.
8. Physical Chemistry - Alberty R. A. and Silbey R. J. John Wiley & Sons, 1992.
9. Physical Chemistry - G. M. Barrow, McGraw Hill, 1986.
10. Physical Chemistry, 3rd Edition - Gilbert W. Castellan, Narora Publishing House, 1985.
11. Text Book of Polymer Science - Billmeyer, Dr. F. W. John Wiley & Sons, 1984.
12. Basic Physical Chemistry - Walter J. Moore, Prentice Hall, 1972.

Biochemistry

1. Concise Text Book of Biochemistry - T. N. Pattabhiraman, All India Publishers, 2000.
2. Biochemistry - A. L. Lehninger et. al., CBS, 2000.
3. A Text Book of Biochemistry - A. V. S. S. Rama Rao, UBSPD, 1998.
4. Biochemistry - P. C. Champe and R. A. Harvey, J. B. Lipincott & Co, 1982.
5. Fundamentals of Biochemistry - J. L. Jain, S. Chand & Co., 1983.
6. Biochemistry - COSIP-ULP, Bangalore University, 1981.
7. Outlines of Biochemistry - Conn E. E and Stumpf P. K., John Wiley & Sons, 1978.
8. General Biochemistry - Weil J. H., Wiley Eastern
9. Biochemistry - Campbell M. K., Harcourt Brace & Co.

BANGALORE



UNIVERSITY

B.Sc., (COMPUTER SCIENCE)

DEGREE COURSE

UNDER - SEMESTER SYSTEM

(Y2K 12 SCHEME)

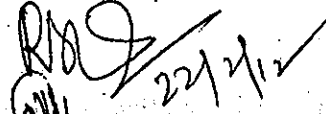

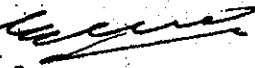

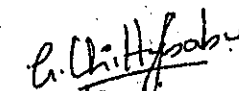
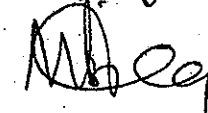
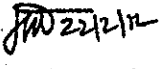
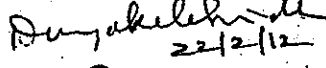
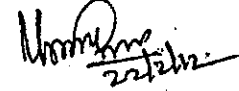
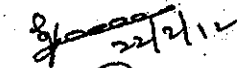

[REVISED w.e.f. 2012-'13]

JNANA BHARATHI

Psychological Counseling Building, Bangalore – 56

PROCEEDINGS OF THE BOARD OF STUDIES MEETING IN MASTER OF COMPUTER APPLICATIONS (UG & PG) HELD IN THE MCA PROGRAMME, PSYCHOLOGY BUILDING, JNANABHARATHI CAMPUS, BANGALORE - 56, ON 22.02.12

The following members attended the meeting:

Dr. P. Nagabhushan	Member	
Dr. Deepak D' Souza	Member	
Dr. Muralidhara B. L.	Member	
Dr. Dilip Kumar	Member	
Dr. Sudeendra	Member	
Mr. Chitty Babu G.	Member	
Mr. M.T. Somashekara	Member	
Ms. Sunitha Watts	Member	
Ms. Durgakala Sridhar	Member	
Mr. Murugan K.	Member	
Mr. Vijay Kumar	Member	
Dr. Hanumanthappa M.	Chairman	

Dr. P. S. Hiremath, Dr. Arun Agarwal and Mr. Nagarajan could not attend the meeting.

The committee discussed the following matters and made resolutions as indicated below:

Item I: Approval of the Panel of Ph. D Examiners for Ms. Chetana Hegde Lakshminarayana
Committee finalized the Panel of Examiners of Ms. Chetana Hegde Lakshminarayana.

Item II: Change of Syllabus for MCA, M.Sc. (CS) and B.Sc. (CS)


The revised scheme and syllabi are prepared. The Chairman is authorized to explore the contents with consultation of local members.

Item III: Ph.D. Course work syllabus


The papers for Ph.D. course work and syllabi are prepared. The Chairman is authorized to explore the contents with consultation of local members.

The Chairman thanked all the members present for their active participation in the meeting.


Dr. P. Nagabhushan


Dr. Deepak D' Souza



Dr. Muradhara B. L

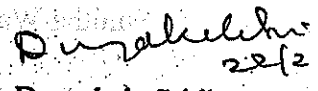

Dr. Dilip Kumar

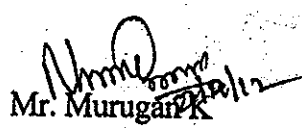
Dr. Sudeendra


Mr. M.T. Somashekara


Mr. Chitty Babu G


Ms. Sunitha Watts


Ms. Durgakala Sridhar


Mr. Murugan K


Mr. Vijay Kumar


Dr. HANUMANTHAPPA M.
CHAIRMAN
BOS IN CS (UG & PG)

Dr. M. HANUMANTHAPPA
Co-ordinator
MCA Programme, Psychology Building
Bangalore University, Jnanabharathi Campus,
BANGALORE-560 056

**REGULATIONS, SCHEME OF STUDY AND EXAMINATION
FOR B.SC (COMPUTER SCIENCE) DEGREE COURSE
UNDER SEMESTER SYSTEM**

(Y2K12 SCHEME) (REVISED W.E.F. 2012–2013)

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- a
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2/2
- R1.** a) Title of the course: **Bachelor of Computer Science**
b) Duration of the Course: The course shall be of three years duration spread over six semesters.
c) Scheme of study
i) There shall be one theory paper and one practical paper from first semester to fourth semester. The practical paper corresponds to theory papers.
ii) There shall be two theory papers and two practical papers during fifth semester.
iii) There shall be two theory papers, one practical paper and one project work during sixth semester.
iv) The project work shall be carried out either independently or jointly (maximum of two students per group).
v) Medium of Instruction: The medium of instruction shall be English.
d) Scheme of Examination
At the end of each semester there shall be University examination of three hours duration in each of the theory and practical papers.
At the end of the sixth semesters each student shall have to submit the completed project report for the evaluation which shall be certified by internal and external guide and duly signed by the Principal/Chairman/Head/Course Coordinator.

The question paper pattern for theory paper has two sections. (70 Marks)

- a) Section –A, contains 12 questions, students has to attend 10 questions. Each carries 2 Marks (10 * 2 = 20)
b) Section – B, contains 5 either or type questions, each carries 10 Marks (5 * 10 = 50)

R2. Each semester shall be of 90 working days from the date of commencement of the each Semester.

R3. Attendance: As per Bangalore University regulations in force for science degree courses.

R4. A Candidate is allowed to carry over all the previous unleared (failed) theory papers and/practical to subsequent semesters as per Bangalore University regulations in force for science degree courses.

R5. The maximum period for completion of the course shall be six years from the date of admission.

R6. Eligibility for admission:

- a) Any student who has passed II PUC/Equivalent with one paper of Mathematics as Compulsory with a minimum of 35% marks.

R7. Admission Procedure:

- a) Through Counseling in respective colleges.
- b) Reservation: As per the notifications/Govt. orders from the University/Govt. from time to time.
- c) Tuition and other fees: As fixed by the University from time to time.

R8. The total number of students to be admitted to the course shall be as decided by the University.

R9. Results: Results of candidate shall be declared as per the procedure followed by the University for B.Sc. courses.

R10. POWER TO REMOVE DIFFICULTIES

1. If any difficulty arises in giving effect to the provisions of these regulations, the Vice – Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
2. Every order made under this rule shall be subject to ratification by the appropriate University Authorities.

**Title of Papers and Scheme of Study & Examination for B.Sc
(Bachelor of Computer Science), Revised w.e.f. 2012– 2013**

Sem	Paper	Title of the paper	Hrs/ Wk	Theory	Practical	CE	Total Marks
				Max. Marks	Max. Marks		
I	CS1T	Problem Solving through C Programming	4	70	30	-	100
	CS1P	C Programming Lab	3				
II	CS2T	Logic Design and Unix Programming	4	70	30	-	100
	CS2P	UNIX Programming Lab	3				
III	CS3T	Data Structures and Algorithms	4	70	30	-	100
	CS3P	Data Structures Lab using C	3				
IV	CS4T	Software Engineering and Database System	4	70	30	-	100
	CS4P	Database System Lab	3				
V	CS5T1	Computer Graphics	3	70	30	-	100
	CS5P1	Computer Graphics Programming Lab	3				
	CS5T2	Web Programming	3				
	CS5P2	Web Programming Lab	3				
VI	CS6T1	Object Oriented Programming using JAVA	3	70	30	-	100
	CS6P1	Java Programming Lab	3				
	CS6T2	Computer Networks	3				
	CS6P2	Project	3				

Note: 1) *The practical classes during the course of the semester shall be as in other science courses.*

2) *Examination for Theory/Practical shall be of three hours duration.*

3) *The papers should be taught only by people who have specialization in the area.*

4) *For theory papers the paper number may be suffixed with T and for practical papers with P.*

5) *Any further requirement in the matter may be decided by the Chairman, BOS in Consultation with BOS members.*

CS1T - Problem Solving through C Programming

Total Teaching Hours : 60

No of Hours / Week : 04

Unit-I

Introduction to Programming Concepts - Software, Classification of Software, Modular Programming, Structured Programming, Algorithms, Pseudocode and Flowcharts with examples. History of C, Character set, C tokens, Identifiers, Keywords, Data types, Variables, Constants, Symbolic Constants - Structure of C Program - Operators in C, Hierarchy of Operators, Expressions, Library Functions and type conversions. 12 Hours

Unit-II

Input/Output Statements - Formatted and Unformatted I/O Statements, scanf(), printf(), Decision Making Statements - If Statements, Switch, Looping - while, do-while, for loop, Nested loop, break, continue, and goto statements. Functions - Definition, prototyping, types of functions, passing arguments to functions, Nested Functions, Recursive functions. 12 Hours

Unit-III

Arrays - Declaring and Initializing, One Dimensional Arrays, Two Dimensional Arrays, Multi Dimensional Arrays - Passing arrays to functions. Handling Character Strings - Declaring and Initializing strings, Operations on strings, Arrays of strings, passing strings to functions. Storage Classes - Automatic, External, Static and Register Variables. 12 Hours

Unit-IV

Structures - Declaring and Initializing, Nested structure, Array of Structure, Passing structures to functions, Unions, typedef, enum, Bit fields. Pointers - Declarations, Pointer arithmetic, Pointers and functions, Call by value, Call by reference, Pointers and Arrays, Arrays of Pointers, Pointers and Structures. Meaning of static and dynamic memory allocation, Memory allocation functions. 12 Hours

Unit-V

Files - File modes, File functions, and File operations, Text and Binary files, Command Line arguments. C Preprocessor directives, Macros - Definition, types of Macros, Creating and implementing user defined header files. 12 Hours

TEXT BOOKS

1. E. Balaguruswamy, "Programming In ANSI C", 4th edition, TMH Publications, 2007
2. Ashok N. Kamthane, "Programming with ANSI and Turbo C", Pearson Education, 2007

REFERENCES BOOKS

1. Ashok N. Kamthane et. al., Computer Programming and IT (for RTU), Pearson Education, 2011
2. Mahapatra, "Thinking in C", TMH Publications, 2011
3. Kanetkar, "Let Us C", BPB Publications, 2007

CS1P - C Programming Lab

PART - A

- 1) Write a C program to accept employee number, employee name, basic pay and calculate gross salary, deduction and find the net salary of an employee for the following details.

Dearness Allowance	40% of Basic Pay
House Rent Allowance	20% of Basic Pay
Provident Fund	12% of Basic Pay
Income Tax	4% of Basic Pay

- 2) Write a C Program to find the roots of the given quadratic equation using if .. else if statement.
- 3) Write a menu driven C program to find ,
 - i. Reverse of a number
 - (ii) Factorial of N (Use Switch case)
- 4) Write a C program to find Sin(x). [$x - x^3/3! + x^5/5! - \dots - x^n/n!$]
- 5) Write a C program to arrange the given set of numbers in ascending and descending order.
- 6) Write a C program to find product of two N X M matrices.
- 7) Write a C program to calculate $NCR = N! / R! * (N-R)!$ Using function.
- 8) Write a C program to display Fibonacci series using recursive function.
- 9) Write a C program to compare two strings using pointers..
- 10) Write a C program to demonstrate the user defined header file.

PART-B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.

b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.

c) Scheme of Evaluation is as follows:

Writing two programs	- 10 (5 Marks for each)
Execution of one program	- 10 Marks
Record	- 5 Marks
Viva	- 5 Marks
Total	- 30 Marks

CS2T – Logic Design and Programming in Unix

Total Teaching Hours :60

No. of Hours / Week : 04

Unit-I

Introduction to number systems – positional and non-positional, Base/ Radix. Decimal number system –

Definition, digits, radix/base. Binary number system – Bit, Byte, Conversions: Binary to Decimal and Decimal to Binary. Octal number system – Conversion from Octal to Decimal, Decimal to Octal, Octal to Binary and binary to Octal. Hexadecimal number system-Conversions: Decimal to Hex, Hex to decimal, Hex to Binary, Binary to Hex, Octal to Hex , Hex to Octal. Binary arithmetic- binary addition, subtraction, multiplication and division (only Integer part). 1's and 2's complement – 2's complement subtraction. Binary codes: BCD numbers, 8421 code, 2421 code- examples and applications. Gray code- Conversions- Gray to binary and Binary to Gray, application of gray code (Mention only). Excess – 3 code - Self complementing property and applications. Boolean algebra: - Laws and Theorems. AND, OR, NOT Laws, Commutative law, Associative law, Distributive law, Duality theorem. Demorgan's theorems – Statements, proof using truth tables; Simplification of Boolean expressions using Boolean laws. Definition of product term, sum term, min term , max term, SOP, standard SOP, POS and Standard POS. Conversion of Boolean expression to Standard SOP and Standard POS forms. 12 Hours

Unit-II

Karnaugh maps- Definition of Karnaugh map, K- map for 2, 3 and 4 variables. Conversion of truth tables into k-map, grouping of cells, redundant groups and don't care conditions. Karnaugh map technique to solve 3 variable and 4 variable expressions. Simplification of 3 and 4 variable Boolean

expression using K-maps (SOP only). AND Gate: Definition, symbol, truth table. OR Gate: Definition, symbol, truth table. NOT Gate: Definition, symbol, truth table. NAND Gate: Definition, symbol, truth table. NOR Gate: Definition, symbol, truth table. Exclusive OR Gate: Definition, symbol, truth table. Exclusive NOR Gate: Definition, symbol, truth table. Combinational logic circuits: Definition, applications. Half Adder: Symbol, Logic circuits using XOR and basic gates, Truth table. Full Adder: Symbol, Logic circuits using XOR and basic gates, Truth table. 12 Hours

Unit-III

History of Unix, salient features, Unix Components, types of shell, Internal and External commands Files and File Organization- Categories of files, Unix file system, directories, file related commands Directory related commands, wild cards, Printing and Comparing files. Ownership of files, File attributes File permissions and Manipulations. 12 Hours

Unit-IV

Standard I/O, Redirection, pipe, filter, Introduction to vi editor, The three modes of the vi editor, Invoking vi editor, Configuring the vi environment, Regular expressions, the grep command, The process - parent and child process, process creation, process related commands, the communication process, communication related commands, Introduction to system administrator, Role of a system administrator, Managing Disk space. 12 Hours

Unit-V

Shell Programming - shell script features, shell variables, writing and executing a shell script, positional parameters, Branching control structures- if, case etc., Loop control structures - while, until, for, etc., Jumping control structures - break, continue, exit, etc., Integer and Real arithmetic in shell programs, Debugging scripts, Structure of an awk script, Operational mechanism of awk, variables, operators, awk control structures, functions in awk, Arrays concepts. 12 Hours

TEXT BOOKS

1. M.G.Venkateshmurthy "Introduction to UNIX & SHELL Programming, Pearson Education
2. Forouzan : Unix and Shell Programming, 1st Edition, 2008 Cengage Learning India
3. Malvino and Leach : Digital Principles and Applications 5th Edition. TMH

REFERENCE BOOKS

- 1) Glass, Unix for Programmers and Users, 3/e Pearson Education, 2006
- 2) Kernighan, The Unix Programming Environment
- 3) Sobell G, A practical Guide to Unix System, 3rd Edition, Pearson Publication, 1994

CS2P – Logic Design and Programming in Unix Lab

PART – A

- 1) Write a menu driven program to calculate ,
 - i. Simple interest (ii) Compound interest
- 2) To print all prime numbers between m and n ($m < n$).
- 3) Reverse a given number and check whether it is palindrome or not.
- 4) Shell script to find maximum and minimum of given set
- 5) To count the number of vowels in a given string.
- 6) Create a file containing the following fields: student No., student name, age, sex, height and weight. Print all the details in a neat format.
- 7) Write a C program to generate and print the GCD and LCM of two integers.
- 8) Shell script to take two numbers as arguments and output their sum using (i) bc (ii) expr.
Include error checking to test whether two arguments were entered.
- 9) Find out the occurrences of three consecutive and identical word characters (like aaa or bbb) using (i) grep and (ii) sed.
- 10) Shell script to display all the file permissions.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 (5 Marks each)
Execution of one program	- 10 Marks
Record	- 5 Marks
Viva	- 5 Marks
Total	- 30 Marks

Proposed Syllabus
for B.Sc.
Mathematics
paper for 6
semesters under
Choice Based
Credit Scheme
(CBCS)

Effective from the academic
year 2014-2015

Department of Mathematics
Bangalore University

**BANGALORE UNIVERSITY
DEPARTMENT OF MATHEMATICS**

Date: 13-6-2014

PROCEEDINGS OF THE BOS (UG) IN MATHEMATICS

The meeting of the Board of Studies in UG Mathematics for the year 2014-15 was held on Friday, June 13, 2014 at 2-00 p.m. in the chambers of the Chairman. The following members attended the meeting:

1. Dr. Pradeep G. Siddheshwar	Chairman	<i>Middheshwar, 13/6/2014</i>
2. Dr. Gayatri Nataraj	Member	<i>Gayatri Nataraj</i>
3. Dr. Sudhakar H. R.	Member	<i>H.R.</i>
4. Shri Ashwartha Reddy M.	Member	<i>[Signature]</i>
5. Shri Thajmull Pasha B.	Member	ABSENT
6. Shri Ramakrishnappa V.	Member	<i>[Signature]</i>
7. Shri Narasimhamurthy A. G.	Member	<i>[Signature]</i>
8. Smt. Madhulatha Moses	Member	<i>[Signature]</i>
9. Shri Sethuram H. R.	Member	<i>[Signature]</i>
10. Dr. S. Pranesh	External Member	<i>S. Pranesh</i>
11. Shri Vittal V. Kulkarni	External Member	<i>Vittal V. Kulkarni 13/6/14</i>

Agenda and resolution:

1. Discussion on the syllabus of mathematics papers of B.Sc. course

The BOS had a discussion on the draft syllabus for three years of B.Sc. (six semesters) prepared by teachers and approved the same with a practical component (mathematics practicals with FOSS tools for programming). Further, the BOS authorizes the BOS (PG - mathematics) to deliberate and decide on the contents of the syllabus of B.Sc.(Honours) which is the same as that of I M.Sc. (Mathematics). The BOS also resolved to change the list of practical experiments each year.

2. Panel of examiners of UG (Mathematics) and UG (Engineering Mathematics).

The committee approved the updated panel of examiners of the two UG courses.

Middheshwar
CHAIRMAN

Copy to:

1. The PS to the Registrar, Bangalore University, Bangalore.

2. The PS to the Vice-chancellor, Bangalore University, Bangalore.

Structure of B.Sc. / B.Sc.(Hons.) – Mathematics papers

Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
				IA	Exam	Total	
I Semester							
Mathematics paper with practicals of 3credits	Theory	4	3	30	70	100	2
	Prac.	3	3	15	35	50	1
II Semester							
Mathematics paper with practicals of 3credits	Theory	4	3	30	70	100	2
	Prac.	3	3	15	35	50	1
III Semester							
Mathematics paper with practicals of 3credits	Theory	4	3	30	70	100	2
	Prac.	3	3	15	35	50	1
IV Semester							
Mathematics paper with practicals of 3credits	Theory	4	3	30	70	100	2
	Prac.	3	3	15	35	50	1
V Semester							
Two Mathematics papers with practicals of 3 credits each	Theory	3	3	30	70	100	2
	Prac.	3	3	15	35	50	1
	Theory	3	3	30	70	100	2
	Prac.	3	3	15	35	50	1
VI Semester							
Two Mathematics papers with practicals of 3 credits each	Theory	3	3	30	70	100	2
	Prac.	3	3	15	35	50	1
	Theory	3	3	30	70	100	2
	Prac.	3	3	15	35	50	1

Note: The structure of the syllabus of mathematics paper of B. Sc. (Hons.) is included in the structure of M.Sc. (Mathematics) syllabus.

MISSION AND VISION OF THE NEW SYLLABUS IN MATHEMATICS

Mission

- Improve retention of mathematical concepts in the student.
- To develop a spirit of inquiry in the student.
- To improve the perspective of students on mathematics as per modern requirement.
- To initiate students to enjoy mathematics, pose and solve meaningful problems, to use abstraction to perceive relationships and structure and to understand the basic structure of mathematics.
- To enable the teacher to demonstrate, explain and reinforce abstract mathematical ideas by using concrete objects, models, charts, graphs, pictures, posters with the help of FOSS tools on a computer.
- To make the learning process student-friendly by having a shift in focus in mathematical teaching, especially in the mathematical learning environment.
- Exploit techno-savvy nature in the student to overcome math-phobia.
- Propagate FOSS (Free and open source software) tools amongst students and teachers as per vision document of National Mission for Education.
- To set up a mathematics laboratory in every college in order to help students in the exploration of mathematical concepts through activities and experimentation.
- To orient students towards relating Mathematics to applications.

Vision

- To remedy Math phobia through authentic learning based on hands-on experience with computers.
- To foster experimental, problem-oriented and discovery learning of mathematics.
- To show that ICT can be a panacea for quality and efficient education when **properly integrated** and accepted.
- To prove that the activity-centered mathematics laboratory places the student in a problem solving situation and then through self exploration and discovery habituates the student into providing a solution to the problem based on his or her experience, needs, and interests.
- To provide greater scope for individual participation in the process of learning and becoming autonomous learners.
- To provide scope for greater involvement of both the mind and the hand which facilitates cognition.
- To ultimately see that the learning of mathematics becomes more alive, vibrant, relevant and meaningful; a program that paves the way to seek and understand the world around them. A possible by-product of such an exercise is that math-phobia can be gradually reduced amongst students.
- To help the student build interest and confidence in learning the subject.

Support system for Students and Teachers in understanding and learning FOSS TOOLS:

As a national level initiative towards learning FOSS tools, IIT Bombay for MHRD, Government of India is giving free training to teachers interested in learning open source softwares like scilab, maxima, octave, geogebra and others.

**(website: <http://spoken-tutorial.org> ; email: contact@spoken-tutorial.org ;
info@spokentutorial.org)**

**NEW SYLLABUS
FIRST SEMESTER
MATHEMATICS – I**

(4 lecture hours per week + 3 hours of practicals/week per batch of not more than 10 students)

(56 HOURS)

THEORY

1. ALGEBRA - I

Matrices

Elementary row and column transformations (operations), equivalent matrices, theorems on it. Row-reduced echelon form, Normal form of a matrix, Rank of a matrix, Problems.

Homogeneous and Non-Homogeneous systems of m linear equations in n unknowns consistency criterion – criterion for uniqueness of solutions. Solution of the same by elimination method.

Eigenvalues and Eigenvectors of a square matrix of order 2 and 3, standard properties, Cayley-Hamilton theorem (with proof). Finding A^{-1}, A^{-2} and A^2, A^3, A^4

(14 lecture hours)

2. CALCULUS - I

a) Differential Calculus

Successive Differentiation - n^{th} derivatives of the functions: e^{ax} , $(ax + b)^n$, $\log(ax + b)$, $\sin(ax + b)$, $\cos(ax + b)$, $e^{ax}\sin(bx + c)$, $e^{ax}\cos(bx + c)$ – Problems

Leibnitz theorem (with proof) and its applications.

Partial differentiation – Function of two and three variables - First and higher derivatives - Homogeneous functions – derivatives- Euler's theorem and its extension (with proof) - Total derivative and differential - Differentiation of implicit functions and composite functions – Problems - Jacobians – Properties of Jacobians problems.

b) Integral Calculus

Reduction formulae for $\int \sin^n x \, dx$, $\int \cos^n x \, dx$, $\int \tan^n x \, dx$, $\int \cot^n x \, dx$, $\int \sec^n x \, dx$, $\int \operatorname{cosec}^n x \, dx$, $\int \sin^m x \cos^n x \, dx$, with definite limit. Differentiation under integral sign by Leibnitz rule.

(28 lecture hours)

3.GEOMETRY

Analytical Geometry Of Three Dimensions

Recapitulation of elements of three dimensional geometry - Different forms of equations of straight line and plane.

Angle between two planes - Line of intersection of two planes - Plane coaxial with given planes - Planes bisecting the angle between two planes - Angle between a line and a plane - Coplanarity of two lines - Shortest distance between two lines.

Equation of the sphere in general and standard forms - equation of a sphere with given ends of a diameter. Tangent plane to a sphere, orthogonality of spheres.

Standard equations of right circular cone and right circular cylinder.

(14 lecture hours)

Note: All the derivations (book works) must be through vector methods with reduction to corresponding Cartesian equivalents.

Suggested distribution of lecture hours

1. Matrices: 1 hour per week
2. Differential Calculus and Integral Calculus: 2 hours per week
3. Analytic Geometry of three dimensions: 1 hour per week.

Text Books/open source materials

1. Shanti Narayan and P K Mittal, Text book of *Matrices*, 5th edition, New Delhi, S Chand and Co. Pvt. Ltd., 2013.
2. Shanti Narayan and P K Mittal, *Differential Calculus*, Reprint. New Delhi: S Chand and Co. Pvt. Ltd., 2014.
3. Shanti Narayan and P K Mittal, *Integral Calculus*, Reprint. New Delhi: S. Chand and Co. Pvt. Ltd., 2013.
4. Shanti Narayan and P K Mittal, *Analytical Solid Geometry*. New Delhi: S. Chand and Co. Pvt. Ltd., 2014.
5. www.scilab.org.
6. wxmaxima.sourceforge.net
7. www.geogebra.org

Reference Books

1. B S Vatssa, *Theory of Matrices*, New Delhi: New Age International Publishers, 2005.
2. A R Vashista, *Matrices*, Krishna Prakashana Mandir, 2003.
3. G B Thomas and R L Finney, *Calculus and analytical geometry*, Addison Wesley, 1995.

4. J Edwards, *An elementary treatise on the differential calculus: with applications and numerous example*, Reprint. Charleston, USA: BiblioBazaar, 2010.
5. N P Bali, *Differential Calculus*, India: Laxmi Publications (P) Ltd., 2010.
6. S Narayanan & T. K. Manicavachogam Pillay, *Calculus.*: S. Viswanathan Pvt. Ltd., vol. I & II 1996.
7. Frank Ayres and Elliott Mendelson, *Schaum's Outline of Calculus*, 5th ed. USA: Mc. Graw Hill., 2008.
8. S.P.Mahajan & Ajay Aggarwal, *Comprehensive Solid Geometry* , 1st ed.: Anmol Publications , 2000.

Useful web links:

1. <http://www.cs.columbia.edu/~zeph/3203s04/lectures.html>
2. <http://home.scarlet.be/math/matr.htm>
3. <http://www.themathpage.com/>
4. <http://www.abstractmath.org/>
5. <http://ocw.mit.edu/courses/mathematics/>
6. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
7. <http://ocw.mit.edu/OcwWeb/Mathematics/18-01Fall-2005/CourseHome/index.htm>
8. <http://mathworld.wolfram.com/Calculus.html>
9. <http://ocw.mit.edu/courses/mathematics/>
10. <http://www.univie.ac.at/future.media/moe/galerie.html>
11. <http://mathworld.wolfram.com/AnalyticGeometry.html>

PRACTICALS – I

**Mathematics practicals with Free and OpenSource Software (FOSS) tools for computer programs
(3 hours/ weekper batch of not more than 10 students)**

LIST OF PROBLEMS

1. Introduction to Scilab and commands connected with matrices.
2. Computations with matrices.
3. Row reduced echelon form and normal form.
4. Establishing consistency or otherwise and solving system of linear equations.
5. Introduction to Maxima and commands for derivatives and n^{th} derivatives.
6. Scilab and Maxima commands for plotting functions.
7. n^{th} derivative without Leibnitz rule.
8. n^{th} derivative with Leibnitz rule.
9. Obtaining partial derivative of some standard functions
10. Verification of Euler's theorem, its extension and Jacobian.
11. Maxima commands for reduction formula with or without limits.

12. Implementing vector form of line.
13. Implementing vector form of plane.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics).

SECOND SEMESTER MATHEMATICS – II

(4 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

(56 HOURS)

THEORY

1. ALGEBRA - II

Group Theory

Binary operation, algebraic structure-problems on finding identity and inverse. Definitions of semigroup and group, abelian group – problems on finite and infinite groups. Properties of group with proof – standard problems on groups – A finite semigroup with both the cancellation laws is a group – Any group of order less than five is abelian – permutation groups.

Subgroups- theorems on subgroups (with proof)- problems.

(14 lecture hours)

2. CALCULUS - II

a) Differential Calculus

Polar coordinates - Angle between the radius vector and the tangent - Angle of intersection of curves (polar form) polar sub-tangent and polar subnormal-perpendicular from pole on the tangent - Pedal equations. Derivative of an arc in Cartesian, parametric and polar forms.

Curvature of plane curves - formula for radius of curvature in Cartesian, parametric, polar and pedal forms - centre of curvature - evolutes. Singular points – Asymptotes – Envelopes. General rules for tracing of curves.

b) Integral Calculus

Applications of Integral Calculus: computation of length of arc, plane area and surface area and volume of solids of revolutions for standard curves in Cartesian and Polar forms.

(28 lecture hours)

4.DIFFERENTIAL EQUATIONS – I

Solutions of ordinary differential equations of first order and first degree:

(i) Linear equations, Bernoulli equation and those reducible to these.

(ii) Exact equations(excluding reducible to Exact)

Equations of first order and higher degree – non linear first order, higher degree – (Mention) solvable for p - solvable for y - solvable for x - Clairaut's equation -

singular solution - Geometric meaning. Orthogonal trajectories in Cartesian and polar forms.

(14 lecture hours)

Suggested distribution of lecture hours

1. Algebra-II (Group theory) : 1 hour / week
2. Calculus-II (Differential calculus & Integral Calculus): 2 hours / week.
3. Differential Equations-I: 1 hour / week.

Text Books/open source materials

1. Herstein I N, *Topics in Algebra*, 4th ed. New Delhi, India: Vikas Publishing House Pvt. Ltd, 1991.
2. Shanthi Narayan and P K Mittal, *Differential Calculus*, Reprint. New Delhi: S Chand and Co. Pvt. Ltd., 2014.
3. Shanthi Narayan and P K Mittal, *Integral Calculus*, Reprint. New Delhi: S. Chand and Co. Pvt. Ltd., 2013.
4. M D Raisinghania, *Ordinary and Partial Differential Equations*, S Chand and Co. Pvt. Ltd., 2014.
5. www.scilab.org.
6. wxmaxima.sourceforge.net
7. www.geogebra.org

Reference Books

1. Michael Artin, *Algebra*, 2nd ed. New Delhi, India: PHI Learning Pvt. Ltd., 2011.
2. Vashista, *A First Course in Modern Algebra*, 11th ed.: Krishna Prakasan Mandir, 1980.
3. John B Fraleigh, *A First course in Abstract Algebra*, 3rd ed.: Narosa Publishing House., 1990.
4. R Balakrishnan and N. Ramabadrana, *A Textbook of Modern Algebra*, 1st ed. New Delhi, India: Vikas publishing house pvt. Ltd., 1991.
5. G B Thomas and R L Finney, *Calculus and analytical geometry*, Addison Wesley, 1995.
6. J Edwards, *An elementary treatise on the differential calculus: with applications and numerous example*, Reprint. Charleston, USA: BiblioBazaar, 2010.
7. N P Bali, *Differential Calculus*, New ed. New Delhi, India: Laxmi Publications (P) Ltd., 2010.
8. S Narayanan & T. K. Manicavachogam Pillay, *Calculus*: S. Viswanathan Pvt. Ltd., vol. I & II, 1996.

9. Frank Ayres and Elliott Mendelson, *Schaum's Outline of Calculus*, 5th ed. USA: Mc. Graw Hill., 2008.
10. E Spiegel, *Schaum's Outline of Advanced Calculus*, 5th ed. USA: Mc. Graw Hill., 2009.
11. M D Raisinghania, *Advanced Differential Equations*, S Chand and Co. Pvt. Ltd., 2013.
12. F Ayres, *Schaum's outline of theory and problems of Differential Equations*, 1st ed. USA: McGraw-Hill, 2010.
13. S Narayanan and T K Manicavachogam Pillay, *Differential Equations.*: S V Publishers Private Ltd., 1981.
14. G F Simmons, *Differential equation with Applications and historical notes*, 2nd ed.: McGraw-Hill Publishing Company, Oct 1991.

Useful web links:

1. <http://www.themathpage.com/>
2. <http://www.abstractmath.org/>
3. <http://ocw.mit.edu/courses/mathematics/>
4. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
5. <http://ocw.mit.edu/OcwWeb/Mathematics/18-01Fall-2005/CourseHome/index.htm>
6. <http://mathworld.wolfram.com/Calculus.html>
7. <http://ocw.mit.edu/courses/mathematics/>
8. <http://www.univie.ac.at/future.media/moe/galerie.html>
9. <http://tutorial.math.lamar.edu/classes/de/de.aspx>
10. <http://www.sosmath.com/diffeq/diffeq.html>
11. http://www.analyzemath.com/calculus/Differential_Equations/applications.html

PRACTICALS –II

**Mathematics practicals with FOSS tools for computer programs
(3 hours/ week per batch of not more than 10 students)**

LIST OF PROBLEMS

1. Creating a Scilab program (simple examples).
2. Creating a Maxima program (simple examples).
3. i. Verifying whether given operator is binary or not.
ii. To find identity element of a group.
iii. To find inverse element of a group.
4. Finding all possible subgroups of a finite group.
5. Plotting of standard Cartesian curves using Scilab/Maxima.
6. Plotting of standard Cartesian curves using Scilab/Maxima.

7. Plotting of standard Polar curves using Scilab/Maxima.
8. Plotting of standard parametric curves using Scilab/Maxima.
9. Scilab/Maxima programs for area and volume.
10. Solution of Differential equation using Scilab/Maxima and plotting the solution-I.
11. Solution of Differential equation using Scilab/Maxima and plotting the solution-II.
12. Solution of Differential equation using Scilab/Maxima and plotting the solution-III.
13. Solution of Differential equation using Scilab/Maxima and plotting the solution-IV.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics).

THIRD SEMESTER MATHEMATICS-III

(4 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

(56 HOURS)

THEORY

1. ALGEBRA - III

Groups

Order of an element of a group – properties related to order of an element- subgroup generated by an element of a group –coset decomposition of a group, Cyclic groups-properties- modulo relation- index of a group –Lagrange’s theorem- consequences.

(14 lecture hours)

2. ANALYSIS – I

a) Sequences Of Real Numbers

Definition of a sequences-Bounded sequences- limit of a sequences-convergent, divergent and oscillatory sequences- Monotonic sequences and their properties- Cauchy’s criterion.

b) Series Of Real Numbers

Definition of convergence, divergence and oscillation of series -properties of Convergence series - properties of series of positive terms – Geometric series Tests for convergence of series -p- series - comparison of series Cauchy’s root Test -D Alembert’s test. Raabe’s test ,- Absolute and conditional convergence-D’ Alembert test for absolute convergence - Alternating series - Leibnitz test.

Summation of binomial, exponential and logarithmic series.(28 lecture hours)

3. CALCULUS - III

Differential Calculus

Recapitulation of Equivalence Class and partition of a set. Definition of the limit of a function in ϵ - δ form –continuity- types of discontinuities. Properties of continuous function on a closed interval (boundedness, attainment of bounds and taking every value between bounds). Differentiability -Differentiability implies Continuity – Converse not true. Rolle's Theorem- Lagrange's and Cauchy's First Mean Value Theorem (Lagrange's form) - Maclaurin's expansion. Evaluation of limits by L' Hospital's rule (14 lecture hours)

Suggested distribution of lecture hours

1. Algebra – III (Groups): 1 hour / week.
2. Analysis-I (sequences of real numbers and series of real numbers):2 hours /week
3. Calculus - III(differential calculus): 1 hour / week.

Text Books/open source materials

1. Herstein I N, *Topics in Algebra*, 4th ed. New Delhi, India: Vikas Publishing House Pvt. Ltd, 1991.
2. Boumslag and Chandler, *Schaum's outline series on groups*, 2010.
3. S.C.Malik and Savita Arora, *Mathematical Analysis*, 2nd ed. New Delhi, India: New Age international (P) Ltd., 1992
4. Shanthi Narayan and P K Mittal, *Differential Calculus*, Reprint. New Delhi: SChand and Co. Pvt. Ltd., 2014.
5. www.scilab.org.
6. wxmaxima.sourceforge.net
7. www.geogebra.org

Reference Books

1. Michael Artin, *Algebra*, 2nd ed. New Delhi, India: PHI Learning Pvt. Ltd., 2011.
2. Vashista, *A First Course in Modern Algebra*, 11th ed.: Krishna Prakasan Mandir, 1980.
3. John B Fraleigh, *A First course in Abstract Algebra*, 3rd ed.: Narosa Publishing House., 1990.
4. R Balakrishan and N.Ramabadran, *A Textbook of Modern Algebra*, 1st ed. New Delhi, India: Vikas publishing house pvt. Ltd., 1991.
5. Richard R Goldberg, *Methods of Real Analysis*, Indian ed. New Delhi, India: Oxford and IBH Publishing Co., 1970.

6. G B Thomas and R L Finney, *Calculus and analytical geometry*, Addison Wesley, 1995.
7. J Edwards, *An elementary treatise on the differential calculus: with applications and numerous examples*, Reprint. Charleston, USA: BiblioBazaar, 2010.
8. N P Bali, *Differential Calculus*, New ed. New Delhi, India: Laxmi Publications (P) Ltd., 2010.
9. S Narayanan & T. K. Manicavachogam Pillay, *Calculus*: S. Viswanathan Pvt. Ltd., vol. I & II 1996.
10. Frank Ayres and Elliott Mendelson, *Schaum's Outline of Calculus*, 5th ed. USA: Mc. Graw Hill., 2008.
11. E Spiegel, *Schaum's Outline of Advanced Calculus*, 5th ed. USA: Mc. Graw Hill., 2009.

Useful web links:

1. <http://www.themathpage.com/>
2. <http://www.abstractmath.org/>
3. <http://ocw.mit.edu/courses/mathematics/>
4. <http://www.math.unl.edu/~webnotes/contents/chapters.htm>
5. <http://www-groups.mcs.st-andrews.ac.uk/~john/analysis/index.html>
6. <http://web01.shu.edu/projects/reals/index.html>
7. <http://www.mathcs.org/analysis/reals/index.html>
8. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
9. <http://ocw.mit.edu/OcwWeb/Mathematics/18-01Fall-2005/CourseHome/index.htm>
10. <http://mathworld.wolfram.com/Calculus.html>
11. <http://ocw.mit.edu/courses/mathematics/>

PRACTICALS –III

Mathematics practicals with FOSS tools for computer programs (3 hours/ week per batch of not more than 10 students)

LIST OF PROBLEMS

1. Examples to verify Lagrange's theorem.
2. Examples for finding left and right coset and finding the index of a group.
3. Illustration of convergent, divergent and oscillatory sequences using Scilab/Maxima.
4. Illustration of convergent, divergent and oscillatory series using Scilab/Maxima.
5. Scilab/Maxima programs to find the sum of the series and its radius of convergence.
6. Using Cauchy's criterion to determine convergence of a sequence (simple examples).
7. Using Cauchy's criterion on the sequence of partial sums of the series to determine convergence of a series.

8. Testing the convergence of binomial, exponential and logarithmic series and finding the sum.
9. Scilab/Maxima programs to illustrate continuity of a function.
10. Scilab/Maxima programs to illustrate differentiability of a function and unequal left hand and right hand limits for discontinuous functions.
11. Scilab/Maxima programs to verify Rolle's theorem and Lagrange's theorem.
12. Scilab/Maxima programs to verify Cauchy's mean value theorem and finding Taylor's theorem for a given function.
13. Evaluation of limits by L'Hospital's rule using Scilab/Maxima.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.

FOURTH SEMESTER

MATHEMATICS - IV

(4 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

(56 HOURS)

THEORY

1. ALGEBRA –IV

Groups

Normal subgroups-examples and problems –Quotient group-Homomorphism and Isomorphism of groups-Kernel and image of a homomorphism-Normality of the Kernel-Fundamental theorem of homomorphism- properties related to isomorphism-Permutation group-Cayley's theorem.

(14 lecture hours)

2. ANALYSIS -II

Fourier Series

Trigonometric Fourier series of functions with period 2π and period $2L$ – Half range Cosine and sine series.

(9 lecture hours)

3. CALCULUS - IV

Differential Calculus

Continuity and differentiability of a function of two and three variables – Taylor's Theorem and expansion of functions of two variables- Maxima and Minima of functions Of two variables. Method of Lagrange multipliers. (9 lecture hours)

4. MATHEMATICAL METHODS - I

Definition and basic properties Laplace transform of some common functions and Standard results –Laplace transform of periodic functions- Laplace transforms ,of derivatives And the integral of function- Laplace transforms, Heaviside function

convolution theorem (statement only) Inverse Laplace transforms.

(10 lecture hours)

5. DIFFERENTIAL EQUATIONS –II

Second and higher order ordinary linear differential equations with constant Coefficients- complementary function- particular integrals (standard types) Cauchy-Euler differential equation. Simultaneous linear differential equations (two variables) with constant coefficients. Solutions of second order ordinary linear differential equations with variable coefficients by the following methods.

- (i). When a part of complementary function is given
- (ii). Changing the independent variable
- (iii). Changing the dependent variable
- (iv). Variation of parameters
- (v). Conditions for exactness and the solution when the equation is exact.

(14 lecture hours)

Suggested distribution of lecture hours

1. Algebra – IV (Rings ,Fields and Integral domains): 1 hour / week
2. Analysis – II (Fourier series), Calculus-IV (Differential Calculus) and Mathematical methods-I (Laplace transform): 2 hours / week.
3. Differential Equations II: 1 hour / week.

Text Books/open source materials

1. Herstein I N, *Topics in Algebra*, 4th ed. New Delhi, India: Vikas Publishing House Pvt. Ltd, 1991.
2. Boumslag and Chandler, *Schaum's outline series on groups*, 2010.
3. Erwin Kreyszig, *Advanced Engineering Mathematics*, 8th ed. New Delhi, India: Wiley India Pvt. Ltd., 2010.
4. Shanthi Narayan and P K Mittal, *Differential Calculus*, Reprint. New Delhi: S Chand and Co. Pvt. Ltd., 2014.
5. M D Raisinghania, *Ordinary and Partial Differential Equations*, S Chand and Co. Pvt. Ltd., 2014.
6. www.scilab.org.
7. wxmaxima.sourceforge.net
8. www.geogebra.org

Reference Books

1. Michael Artin, *Algebra*, 2nd ed. New Delhi, India: PHI Learning Pvt. Ltd., 2011.

2. Vashista, *A First Course in Modern Algebra*, 11th ed.: Krishna Prakasan Mandir, 1980.
3. John B Fraleigh, *A First course in Abstract Algebra*, 3rd ed.: Narosa Publishing House., 1990.
4. R Balakrishan and N.Ramabadran, *A Textbook of Modern Algebra*, 1st ed. New Delhi, India: Vikas publishing house pvt. Ltd., 1991.
5. G B Thomasand R L Finney, *Calculus and analytical geometry*, Addison Wesley, 1995.
6. J Edwards, *An elementary treatise on the differential calculus: with applications and numerous example*, Reprint. Charleston, USA: BiblioBazaar, 2010.
7. N P Bali, *Differential Calculus*, Laxmi Publications (P) Ltd., 2010.
8. S Narayanan & T. K. Manicavachogam Pillay, *Calculus.:* S. Viswanathan Pvt. Ltd., vol. I & II1996.
9. Frank Ayres and Elliott Mendelson, *Schaum's Outline of Calculus*, 5th ed. USA: Mc. Graw Hill., 2008.
10. E Spiegel, *Schaum's Outline of AdvancedCalculus*, 5th ed. USA: Mc. Graw Hill., 2009.
11. Raisinghania M.D., *Laplace and Fourier Transforms*. New Delhi, India: S. Chand and Co. Ltd. , 1995.
12. M D Raisinghania, *Advanced Differential Equations*, S Chand and Co. Pvt. Ltd., 2013.
13. F Ayres, *Schaum's outline of theory and problems of Differential Equations*, 1st ed. USA: McGraw-Hill, 2010.
14. S Narayanan and T K Manicavachogam Pillay, *Differential Equations.:* S V Publishers Private Ltd., 1981.
15. G F Simmons, *Differential equation with Applications and historical notes*, 2nd ed.: McGraw-Hill Publishing Company, Oct 1991.

Useful web links:

1. <http://www.themathpage.com/>
2. <http://www.abstractmath.org/>
3. <http://www.fourier-series.com/>
4. <http://mathworld.wolfram.com/>
5. <http://www.princeton.edu/~rvdb>
6. <http://www.zweigmedia.com/RealWorld/Summary4.html>
7. <http://ocw.mit.edu/courses/mathematics/>
8. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
9. <http://ocw.mit.edu/OcwWeb/Mathematics/18-01Fall-2005/CourseHome/index.htm>
10. <http://mathworld.wolfram.com/Calculus.html>
11. <http://ocw.mit.edu/courses/mathematics/>
12. <http://www.univie.ac.at/future.media/moe/galerie.html>
13. <http://tutorial.math.lamar.edu/classes/de/de.aspx>
14. <http://www.sosmath.com/diffeq/diffeq.html>
15. http://www.analyzemath.com/calculus/Differential_Equations/applications.html

PRACTICALS –IV
Mathematics practicals with FOSS tools for computer programs
(3 hours/ week per batch of not more than 10 students)

LIST OF PROBLEMS

1. Illustrating homomorphism and isomorphism of groups.
2. Verification of Normality of a given subgroup.
3. Verifying Cayley's theorem and isomorphism theorems.
4. To plot periodic functions with period 2π and $2L$.
5. To find full range trigonometric Fourier series of some simple functions with period 2π and $2L$.
6. Plotting of functions in half-range and including their even and odd extensions.
7. To find the half-range sine and cosine series of simple functions.
8. Finding maxima/minima of functions of two variables.
9. Finding the Laplace transforms of some standard functions.
10. Finding the inverse Laplace transform of simple functions.
11. Implementing Laplace transform method of solving ordinary linear differential equations of first and second order with constant coefficient.
12. Finding complementary function and particular integral of constant coefficient second and higher order ordinary differential equations.
13. Finding complementary function and particular integral of constant coefficient second and higher order ordinary differential equations.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.

FIFTH SEMESTER

MATHEMATICS V

(3 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

THEORY(42 hours)

1. ALGEBRA - IV

Rings, Integral Domains, Fields

Rings, Types of Rings properties of rings – Rings of integers modulo n – Subrings – Ideals ,Principal, Prime and Maximal ideals in a commutative ring – examples and standard properties following the definition – Homomorphism, Isomorphism – Properties – Quotient rings – Integral Domain- Fields - properties following the definition – Fundamental Theorem of Homomorphism of Rings - Every field is an integral domain – Every finite integral domain is a field – Problems.

(14 lecture hours)

2. CALCULUS - V

Differential Calculus Of Scalar And Vector Fields

Scalar field – gradient of a scalar field, geometrical meaning – directional derivative – Maximum directional derivative – Angle between two surfaces - vector field – divergence and curl of a vector field – solenoidal and irrotational fields – scalar and vector potentials – Laplacian of a scalar field – vector identities. Standard properties, Harmonic functions, Problems.

(14 lecture hours)

3. NUMERICAL METHODS - I

Finite differences – Definition and properties of $\Delta, \nabla, \delta, \mu$ and E, the relation between them – The nth differences of a polynomial, Factorial notations, separation of symbols, divided differences and related theorems.

Newton –Gregory forward and backward interpolation formulae – Lagrange's and Newton's interpolation formulae for unequal intervals - Inverse interpolation.

Numerical Integration: Quadrature formula – Trapezoidal rule -Simpon's 1/3 and 3/8 rule(without proofs) and problems.

(14 lecture hours)

Suggested distribution of lecture hours.

1. Algebra IV: 1 hour /week.
2. Calculus-V (Differential calculus of scalar and vector fields): 1 hours/week
3. Numerical Methods I : 1 hours/week

Text Books/open source materials

1. Herstein I N, *Topics in Algebra*, 4th ed. New Delhi, India: Vikas Publishing House Pvt. Ltd, 1991.
2. Shanthi Narayan and P K Mittal, *Differential Calculus*, Reprint. New Delhi: S Chand and Co. Pvt. Ltd., 2014.
3. M D Raisinghania, *Vector calculus*, S Chand Co. Pvt. Ltd., 2013.
4. M K Jain, S R K Iyengar, and R K Jain, *Numerical Methods for Scientific and Engineering Computation*, 4th ed. New Delhi, India: New Age International, 2012.
5. www.scilab.org.
6. wxmaxima.sourceforge.net
7. www.geogebra.org

Reference Books

1. Michael Artin, *Algebra*, 2nd ed. New Delhi, India: PHI Learning Pvt. Ltd., 2011.

2. Vashista, *A First Course in Modern Algebra*, 11th ed.: Krishna Prakasan Mandir, 1980.
3. John B Fraleigh, *A First course in Abstract Algebra*, 3rd ed.: Narosa Publishing House., 1990.
4. R Balakrishnan and N.Ramabadran, *A Textbook of Modern Algebra*, 1st ed. New Delhi, India: Vikas publishing house pvt. Ltd., 1991.
5. G B Thomas and R L Finney, *Calculus and analytical geometry*, Addison Wesley, 1995.
6. B Spain, *Vector Analysis* , ELBS, 1994.
7. D E Bournes and, P C Kendall, *Vector Analysis*, ELBS, 1996.
8. S S Sastry, *Introductory methods of Numerical Analysis*, Prentice Hall of India, 2012.

Useful web links:

1. <http://www.themathpage.com/>
2. <http://www.abstractmath.org/>
3. <http://ocw.mit.edu/courses/mathematics/>
4. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
5. <http://ocw.mit.edu/OcwWeb/Mathematics/18-01Fall-2005/CourseHome/index.htm>
6. <http://mathworld.wolfram.com/Calculus.html>
7. <http://www.univie.ac.at/future.media/moe/galerie.html>
8. <http://www.math.gatech.edu/~harrell/calc/>
9. <http://www.amtp.cam.ac.uk/lab/people/sd/lectures/nummeth98/index.htm>
10. <http://math.fullerton.edu/mathews/numerical.html>
11. <http://www.onesmartclick.com/engineering/numerical-methods.html>

PRACTICALS –V

Mathematics practicals with FOSS tools for computer programs (3 hours/ week per batch of not more than 10 students)

LIST OF PROBLEMS

1. Examples on different types of rings.
2. Examples on integral domains and fields.
3. Examples on subrings, ideals and subrings which are not ideals.
4. Homomorphism and isomorphism of rings- illustrative examples.
5. To demonstrate the physical interpretation of gradient, divergence and curl.
6. Writing gradient, divergence, curl and Laplacian in cylindrical coordinates.
7. Writing gradient, divergence, curl and Laplacian in spherical coordinates.
8. Using cyclic notations to derive different vector identities.
9. Using cyclic notations to derive some more vector identities.
10. Scilab/Maxima programs on Interpolations with equal intervals.
11. Scilab/Maxima programs on Interpolations with unequal intervals.

12. Scilab/Maxima programs to evaluate integrals using Simpson's $\frac{1}{3}$ rd rule.

13. Scilab/Maxima programs to evaluate integrals using Simpson's $\frac{3}{8}$ th rule.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.

FIFTH SEMESTER MATHEMATICS – VI

(3 lecture hours per week+ 3 hours of practicals/week per batch of not more than 10 students)

(42 HOURS)

THEORY

1. MATHEMATICAL METHODS - II

Calculus Of Variation

Variation of a function $f=f(x, y, y')$ – variation of the corresponding functional – extremal of a functional – variational problem – Euler's equation and its particular forms – Examples – standard problems like geodesics, minimal surface of revolution, hanging chain, Brachistochrone problem –Isoperimetric problems.

(14 Lecture hours)

2. CALCULUS – VI

a). Line And Multiple Integrals

Definition of line integral and basic properties examples evaluation of line integrals.

Definition of double integral – its conversion to iterated integrals .Evaluation of double integrals by change of order of integration and by change of variables – computation of plane and surface areas ,volume underneath a surface and volume of revolution using double integrals.

Definition of triple integral and evaluation – change of variables – volume as a triple integral .

(18lecture hours)

b). Integral Theorems

Green's theorem (with proof) - Direct consequences of the theorem.The Divergence theorem (with proof) - Direct consequences of the theorem.The Stokes' theorem (with proof) - Direct consequences of the theorem.

(10 lecture hours)

Suggested distribution of lecture hours

1. Mathematical Methods II (Calculus of variation): 1 hour /week.
2. Calculus VI (Line and Multiple Integrals and Integral theorems): 2 hours/week

Text Books/open source materials

1. R Weinstock, *Calculus of Variation*, Dover, 1970.
2. M. D. Raisinghania, *Vector Calculus*, S Chand Co. Pvt. Ltd., 2013.
3. www.scilab.org
4. wxmaxima.sourceforge.net
5. www.geogebra.org

Reference Books

1. F B Hildebrand, *Methods in Applied Mathematics*,
2. B Spain, *Vector Analysis* , ELBS, 1994.
3. D E Bournesand, P C Kendall, *Vector Analysis*, ELBS, 1996.

Useful web links:

1. <http://ocw.mit.edu/courses/mathematics/>
2. <http://planetmath.org/encyclopedia/TopicsOnCalculus.html>
3. <http://mathworld.wolfram.com/Calculus.html>
4. <http://www.univie.ac.at/future.media/moe/galerie.html>
5. <http://www.math.gatech.edu/~harrell/calc/>

PRACTICALS –VI

**Mathematics practicals with FOSS tools for computer programs
(3 hours/ week per batch of not more than 10 students)**

LIST OF PROBLEMS

1. Example on Euler's equation in full form.
2. Example on particular forms of Euler's equation.
3. Examples on minimum surface of revolution and Brachistochrone problem.
4. Examples on Isoperimetric problems.
5. Evaluation of the line integral with constant limits.
6. Evaluation of the double integral with constant limits.
7. Evaluation of the triple integral with constant limits.
8. Evaluation of the line integral with variable limits.
9. Evaluation of the double integral with variable limits.
10. Evaluation of the triple integral with variable limits.
11. Verifying Green's theorem.
12. Verifying Gauss divergence theorem.
13. Verifying Stokes' theorem

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.

SIXTH SEMESTER MATHEMATICS - VII

(3 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

(42 HOURS)

THEORY

1. ALGEBRA –V

Linear Algebra

Vector space – Examples – Properties – Subspaces – criterion for a subset to be a subspace –linear span of a set - linear combination – linear independent and dependent subsets – Basis and dimensions– Standard properties – Examples illustrating concepts and results.

Linear transformations – properties – matrix of a linear transformation – change of basis – range and kernel – rank and nullity – Rank – Nullity theorem – Non-singular and singular linear transformations - Standard properties – Examples.

(14 lecture hours)

2. DIFFERENTIAL EQUATIONS III

a). Orthogonal Curvilinear Coordinates

Definition of orthogonal curvilinear coordinates. Fundamental vectors or base vectors, Scale factors or material factors - quadratic differential form. Spherical curvilinear system : Cartesian, Cylindrical – conversion of Cylindrical to orthogonal Spherical polar coordinates. Theorem: The Spherical coordinate system is orthogonal curvilinear coordinate system. (without proof) No problems on conversions of one system to another.

b). Partial Differential Equations

Total differential equations-Necessary condition for the equation $Pdx+ Qdy+Rdz=0$ to be integrable-Simultaneous equations of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$

Formation of partial differential equation .Equations of First Order Lagrange's linear equation – Charpit's method, Standard types of first order non-linear partial differential equation (By known substitution).

Solution of second order linear partial differential equations in two variables with constant coefficients by finding complementary function and particular integral

Solution of one – dimensional heat equations, Solution of one – dimensional wave equations using Fourier series.

(28 lecture hours)

Suggested distribution of lecture hours:

1. Algebra-V (Linear Algebra) : 1 hours / week.
2. Differential Equations III: 2 hours / week

Text Books/open source materials

1. Krishnamoorthy V K and Mainra V P and Arora J L, *An Introduction to Linear Algebra*, Reprint. New Delhi, India: Affiliated East West Press Pvt. Ltd., 2003.
2. M. D. Raisinghania, *Vector Calculus*, S Chand Co. Pvt. Ltd., 2013.
3. M D Raisinghania, *Ordinary and Partial Differential Equations*, S Chand and Co. Pvt. Ltd., 2014.
4. www.scilab.org
5. wxmaxima.sourceforge.net
6. www.geogebra.org

Reference Books

1. G Strang, MIT open courseware (<http://ocw.mit.edu/courses>).
2. B Spain, *Vector Analysis*, ELBS, 1994.
3. D E Bournes and, P C Kendall, *Vector Analysis*, ELBS, 1996.
4. Frank Ayres, *Schaum's outline of theory and problems of Differential Equations*, 1st ed. USA: McGraw-Hill, 1972.
5. GF Simmons, *Differential equation with Applications and historical notes*, 2nd ed.: McGraw-Hill Publishing Company, Oct 1991.
6. S Narayanan & T K Manicavachogam Pillay, *Differential Equations.:* S V Publishers Private Ltd., 1981.
7. I N Sneddon, *Elements of Partial Differential Equations*, 3rd ed.: Mc. Graw Hill., 1980.

Useful web links:

1. <http://ocw.mit.edu/courses/mathematics/>
2. <http://mathworld.wolfram.com/Calculus.html>
3. <http://www.math.gatech.edu/~harrell/calc/>
4. <http://tutorial.math.lamar.edu/classes/de/de.aspx>
5. <http://www.sosmath.com/diffeq/diffeq.html>
6. http://www.analyzemath.com/calculus/Differential_Equations/applications.html

PRACTICALS –VII

Mathematics practicals with FOSS tools for computer programs (3 hours/ week per batch of not more than 10 students)

LIST OF PROBLEMS

1. i. Vector space, subspace – illustrative examples.
ii. Expressing a vector as a linear combination of given set of vectors.
iii. Examples on linear dependence and independence of vectors.
2. i. Basis and Dimension – illustrative examples.
ii. Verifying whether a given transformation is linear.

3. i. Finding matrix of a linear transformation.
ii. Problems on rank and nullity.
4. Plotting of cylinder and cone using orthogonal curvilinear coordinates.
5. Plotting of sphere using orthogonal curvilinear coordinates.
6. Solutions to the problems on total and simultaneous differential equations.
7. Solutions to the problems on different types of Partial differential equations.
8. Solving second order linear partial differential equations in two variables with constant coefficient.
9. Solving some more second order linear partial differential equations in two variables with constant coefficient.
10. Solution of one dimensional heat equation using Fourier series with Dirichlet condition.
11. Solution of one dimensional heat equation using Fourier series with Neumann condition.
12. Solution of one dimensional wave equation using Fourier series with Dirichlet condition.
13. Solution of one dimensional wave equation using Fourier series with Neumann condition.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.

SIXTH SEMESTER MATHEMATICS - VIII

(3 lecture hours per week+ 3 hours of practicals /week per batch of not more than 10 students)

(42 HOURS)

THEORY

1. ANALYSIS - III

Complex Analysis

Complex numbers-Cartesian and polar form-geometrical representation-complex-Plane-Euler's formula- $e^{i\theta} = \cos \theta + i \sin \theta$. Functions of a complex variable-limit, continuity and differentiability of a complex function. Analytic function Cauchy-Riemann equations in Cartesian and Polar forms-Sufficiency conditions for analyticity(Cartesian form only)-Harmonic function-standard properties of analytic functions-construction of analytic function when real or imaginary part is given-Milne Thomson method.

Complex integration-the complex integration –properties-problems.Cauchy's Integral theorem-proof using Green's theorem- direct consequences.Cauchy's Integral formula with proof-Cauchy's generalised formula for the derivatives with proof and

applications for evaluation of simple line integrals - Cauchy's inequality with proof – Liouville's theorem with proof. Fundamental theorem of algebra with proof.

Transformations – conformal transformation – some elementary transformations namely Translation, rotation, magnification and inversion - examples.

The bilinear transformation (B.T.)-cross ratio-invariant points of a B.T.-properties-

- (i) B.T. sets up a one to one correspondence between the extended z -plane and the extended w -plane.
- (ii) Preservation of cross ratio under a B.T.
- (iii) A B.T. transforms circles onto circles or straight lines.

Problems on finding a B.T., and finding images under a B.T. and invariant points of a B.T. Discussion of transformations $w = z^2$, $w = \sin z$, $w = \cosh z$ and $w = e^z$.

(28 lecture hours)

2. NUMERICAL METHODS – II

Numerical solutions of algebraic and Transcendental equations – method of successive bisection - method of false position – Newton-Raphson method. Numerical solutions of non-Homogeneous system of linear algebraic equations in three variables by Jacobi's method and Gauss-Seidel method. Computation of largest Eigen value of a square matrix by power method.

Solutions of initial value problems for ordinary linear first order differential equations by Taylor's series, Euler's and Euler's modified method and Runge-Kutta 4th ordered method.

(14 lecture hours)

Suggested distribution of lecture hours:

1. Analysis-III (Complex Analysis): 2 hours / week.
2. Numerical Methods-II: 1 hour / week

Text Books/open source materials

1. S Shanthinarayan, *Complex Analysis*, S Chand Co. Pvt. Ltd., 2012.
2. M K Jain, S R K Iyengar, and R K Jain, *Numerical Methods for Scientific and Engineering Computation*, 4th ed. New Delhi, India: New Age International, 2012.
3. www.scilab.org
4. wxmaxima.sourceforge.net
5. www.geogebra.org

Reference Books

1. R V Churchill & J W Brown, *Complex Variables and Applications*, 5th ed.: McGraw Hill Companies., 1989.
2. L V Ahlfors, *Complex Analysis*, 3rd ed.: Mc Graw Hill. , 1979.
3. A R Vashista, *Complex Analysis*, Krishna Prakashana Mandir, 2012.
4. S S Sastry, *Introductory methods of Numerical Analysis*, Prentice Hall of India, 2012.

Useful web links:

1. <http://www.mathcs.org/analysis/real/index.html>
2. <http://www.amtp.cam.ac.uk/lab/people/sd/lectures/nummeth98/index.htm>
3. <http://math.fullerton.edu/mathews/numerical.html>
4. <http://www.onesmartclick.com/engineering/numerical-methods.html>

PRACTICALS –VIII**Mathematics practicals with FOSS tools for computer programs
(3 hours/ week per batch of not more than 10 students)****LIST OF PROBLEMS**

1. Some problems on Cauchy-Riemann equations (polar form).
2. Implementation of Milne-Thomson method of constructing analytic functions (simple examples).
3. Illustrating orthogonality of the surfaces obtained from the real and imaginary parts of an analytic function.
4. Verifying real and imaginary parts of an analytic function being harmonic (in polar coordinates).
5. Illustrating the angle preserving property in a transformation.
6. Illustrating that circles are transformed to circles by a bilinear transformation.
7. Examples connected with Cauchy's integral theorem.
8. Solving algebraic equation (Bisection method).
9. Solving algebraic equation (Regula-Falsi and Newton-Raphson methods).
10. Solving system of equations (Jacobi and Gauss-Seidel methods).
11. Solving for largest eigenvalue by Power method.
12. Solving ordinary differential equation by modified Euler's method.
13. Solving ordinary differential equation by Runge-Kutta method of 4th order.

Note: The above list may be changed annually with the approval of the BOS in UG (Mathematics). Geogebra/Octave may also be used in place of scilab/maxima.



FOR QUALITY & EXCELLENCE
IN HIGHER EDUCATION
A GRADE 3.11
ACCREDITED BY NAAC

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

(Approved in the BOS meeting held on 10.10.2009)

for the BACHELOR OF SCIENCE(B.Sc.)course

Mathematics Papers of I to VI Semesters

(Semester System - Y2K10 scheme)

Revised w. e. f.
Academic Year 2010 – 2011

DEPARTMENT OF MATHEMATICS
Central College Campus, Bangalore-560 001

9/12/10

**BANGALORE UNIVERSITY
BANGALORE**

DEPARTMENT OF MATHEMATICS

Proceedings of the adjourned meeting of BOS (UG) held on 10-10-2009 at 4.30 pm in the chambers of the Chairman, Department of Mathematics, Bangalore University, Central College, Bangalore - 1

Members

- | | | |
|-----|---|----------|
| 1. | Dr. Y. B. Maralabhavi
Bangalore University, Bangalore-1 | Chairman |
| 2. | Smt. Chayadevi R.
Maharani Lakshmi Ammanni College, Bangalore-12 | Member |
| 3. | Mr. Narayana Nambiyar
Government Science College, Bangalore - 1. | " |
| 4. | Sri. Gopalappa A.
V.V. Puram College of Science, K. R. Road, Bangalore-4 | " |
| 5. | Sri. Ravi Kumar S.
Rural College, Kanakapura - 562117 | " |
| 6. | Sri. Venkataramana Reddy N.
KGF First Grade College, Oorgaum-563 120 | " |
| 7. | Sri. Rajareddy K.
Govt. First Grade College for Women, Chintamani - 563125 | " |
| 8. | Smt. Vatsala R.
National College, Basavanagudi, Bangalore -4 | " |
| 9. | Dr. B. R. Nagaraj
TIFR Center for Applicable Mathematics, YNT, Bangalore-64 | " |
| 10. | Dr. R. Rangarajan
DOS in Mathematics, Univ. of Mysore, Mysore-6 | " |

The Chairman welcomed the members. The members discussed about the Revision of Syllabus of B.Sc degree Mathematics in detail and approved the contents. Since the topics like Mathematical Modeling and Topology were included in V and VI semesters which require more time for teaching, the members have raised the work load for each paper in V and VI semester from 4 hours per week to 5 hours per week.

Finally, the chairman thanked the members and the members reciprocated the same to the chairman.

Y.B. MARALABHAVI
Chairman
BOS in Mathematics
Bangalore University, Bangalore

Title of Papers and Scheme of Study & Examination
for
B.Sc. (Bachelor of Science) Revised w.e.f. 2010– 2011

Sem.	Paper	Title of the paper	Lec. Hrs/Wk			CE	Total Marks
				Problem working hrs/week	Theory Max. Marks		
I	Math1	Mathematics I	5	2	90	10	100
II	Math2	Mathematics II	5	2	90	10	100
III	Math3	Mathematics III	5	2	90	10	100
IV	Math4	Mathematics IV	5	2	90	10	100
V	Math5	Mathematics V	5	2	90	10	100
V	Math6	Mathematics VI	5	2	90	10	100
VI	Math7	Mathematics VII	5	2	90	10	100
VI	Math8	Mathematics VIII	5	2	90	10	100

Note : In each semester two hours of problem working classes are to be conducted in batches of not more than 15 students in each batch. This should be outside the lecture hours. The work load must be taken in full for the teacher who is handling the problem working classes.

Regulations, Scheme of Study and Examamination for B.Sc. degree course under Semester System

(Revised w.e.f. 2010– 2011)

- R 1. a) Title of the course: Bachelor of Science**
- b) Scheme of study:
- i) There shall be one theory paper in Mathematics from first semester to fourth semester. There shall be two theory papers each during fifth and sixth semesters.
 - ii) Medium of Instruction: The medium of instruction shall be English.
- c) Scheme of Examination:
- i) At the end of each semester there shall be University examination of three hours duration in each of the theory papers.
 - ii) Continuous Evaluation (CE) carrying 10 marks in each of theory papers shall be based on the performance of the students in two written tests of one hour duration. No Minimum marks for passing is required in CE.

R 2. Attendance: Attendance requirement will be dealt with as per University rule from time to time.

R 3. Eligibility for admission:

- a) Any student who has passed PUC – II with Mathematics and scoring a minimum of 35% of marks.

R 4. Results:

Results of candidate shall be declared and the classes awarded as per the procedure followed by the University for B.Sc. courses.

R 5. POWER TO REMOVE DIFFICULTIES

- 1) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may by order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary or expedient to remove the difficulty.
- 2) Every order made under this rule shall be subject to ratification by the appropriate University Authorities.

SYLLABUS
FIRST SEMESTER
MATHEMATICS – I

75 HOURS

(5 lecture hours per week + 2 hours of problem working classes) *

1. MATRICES

Elementary row and column transformations (operations) equivalent matrices, Theorem on it. Row- reduced echelon form, Normal form of a matrix, Rank of a matrix, Problems.

Homogeneous and Non – Homogeneous systems of m linear equations in n unknowns consistency criterion – criterion for uniqueness of solutions. Solution of the same by elimination method.

Eigen values and Eigen vectors of a square matrix of order 2 and 3, standard properties. Cayley-Hamilton theorem (with proof). Finding A^{-1}, A^{-2} and A^2, A^3, A^4 .

(15 lecture hours)

2. DIFFERENTIAL CALCULUS

Successive Differentiation - n^{th} derivatives of the functions: e^{ax} , $(ax + b)^n$, $\log(ax + b)$, $\sin(ax + b)$, $\cos(ax + b)$, $e^{ax} \sin(bx + c)$, $e^{ax} \cos(bx + c)$ – Problems

Leibnitz theorem (with proof) and its applications.

Partial differentiation – Function of two and three variables – First and higher derivatives – Homogeneous functions – derivatives- Euler's theorem and its extension (with proof) – Total derivative and differential – Differentiation of implicit functions and composite functions – Problems

Jacobians – Properties of Jacobians Problems.

(20 lecture hours)

3. INTEGRAL CALCULUS

Reduction formulae for $\int \sin^n x \, dx$, $\int \cos^n x \, dx$, $\int \tan^n x \, dx$, $\int \cot^n x \, dx$,

$\int \sec^n x \, dx$, $\int \operatorname{cosec}^n x \, dx$, $\int \sin^m x \cos^n x \, dx$, with definite limit, Differentiation under the integral sign by Leibnitz rule.

(10 lecture hours)

4. ANALYTICAL GEOMETRY OF THREE DIMENSIONS

a) Direction cosines of a line (as components of unit vector) -Direction ratios- Angle between two lines, volume of a tetrahedron with given vertices.

Equation of a line in different forms : one point form, Two points form, Parallel and perpendicular conditions, Intersection of two lines, perpendicular from a point onto a line, Reflection of a point.

Equation of a plane in different forms - Perpendicular from a point on to a line.

Equation of a plane in different forms - Perpendicular from a point onto a plane.

Reflection of a point in a plane.

- b) Angle between two planes - Line of intersection of two planes - Plane coaxial with given planes - Planes bisecting the angle between two planes - Angle between a line and a plane - Coplanarity of two lines - Shortest distance between two lines. Equation of the sphere in general and standard forms - equation of a sphere with given ends of a diameter. Tangent plane to a sphere, orthogonality of spheres. Standard equations of right circular cone & right circular cylinder. (30 lecture hrs)

Note: All the derivations (book works) must be through vector methods with reduction to corresponding Cartesian equivalents.

Suggested distribution of lecture hours.

1. Matrices: 1 hour / week
2. Differential calculus and Integral Calculus: 2 hours / week
3. Analytic Geometry of three dimensions: 2 hours / week.

* Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 1

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Matrices 3	15	2	30
	Diff. Calculus 6			
	Integral Calculus 2			
	Ana Geo(a)5 and(b)4 9			
	Total 20			
II	Matrices 4	2	5	10
III	Diff. Calculus 5	3	5	15
IV	Integral Calculus 3	2	5	10
V	Analytical Geometry Upto plane (a) 5	3	5	15
	VI			

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference.

1. A R Vashista Matrices, Krishna Prakashana Mandir
2. S Shanthinarayana Differential Calculus, S Chand
3. S Shanthinarayana Integral Calculus, S Chand
4. S Shanthinarayana Elements of Analytical Geometry, S Chand

SECOND SEMESTER

MATHEMATICS – II

(5 lecture hours per week + 2 hours of problem working classes)

75 hours

1. GROUP THEORY

Recapitulation of the definition and standard properties of groups and subgroups. Order of an element of a group – properties related to order of an element – subgroup generated by an element of a group – coset decomposition of a group, Cyclic groups - properties - modulo relation – index of a group – Lagrange's theorem – consequences. (20 lecture hours)

2. DIFFERENTIAL CALCULUS

Polar coordinates - Angle between the radius vector and the tangent - Angle of intersection of curves (polar form) polar sub-tangent and polar subnormal- perpendicular from pole on the tangent - Pedal equations. Derivative of an arc in Cartesian, parametric and polar forms.

Curvature of plane curves - formula for radius of curvature in Cartesian, parametric, polar and pedal forms - centre of curvature - evolutes. Singular points – Asymptotes – Envelopes.

Tracing of standard Cartesian, parametric and polar curves (Cisoid, Strophic, Astroid, Folium of descartes, Catenary, Cycloid, Cardioid, Lemniscate, Equiangular Spiral, Three leaved rose and four leaved rose). (30 lecture hours)

3. INTEGRAL CALCULUS

Applications of Integral Calculus: computation of length of arc, plane area and surface area and volume of solids of revolutions for standard curves in Cartesian and Polar forms. (10 lecture hours)

4. DIFFERENTIAL EQUATIONS

Solutions of ordinary differential equations of first order and first degree:

(i) Homogenous and reducible to homogenous

(ii) Linear equations, Bernoulli equation and those reducible to these.

(iii) Exact equations, equations reducible to exact form with grouping and standard integrating factors.

Equations of first order and higher degree – non linear first order, higher degree - (Mention) solvable for p - solvable for y - solvable for x - Clairaut's equation - singular solution - Geometric meaning. Orthogonal trajectories in Cartesian and polar forms. (15 lecture hours)

Suggested distribution of lecture hours.

1. Group theory : 1 hour / week
 2. Differential calculus: 2 hours / week.
 3. Integral Calculus: 1 hour / week.
 4. Differential Equations: 1 hour / week.
- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 2

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Group Theory . 5 Diff. Calculus-Evolute 5 Rest 3 Integral Calculus 3 Diff. Equations 4 Total 20	15	2	30
II	Groups 5	3	5	15
III	Diff. Calculus (upto evolutes) 4	2	5	10
IV	Diff. Calculus (remaining) 3	2	5	10
V	Integral Calculus 3	2	5	10
VI	Diff. Equations 5	3	5	15

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference.

1. Baumslag & Chandler Group Theory, Schaum Series
2. S Shanthinarayana Differential Calculus, S Chand
3. S Shanthinarayana Integral Calculus, S Chand
4. J B Fraleigh First course in Abstract Algebra, A Wesley
5. M D Raisinghania Advanced Differential Calculus, S Chand
6. I N Herstein Topics in Algebra, Vikas

THIRD SEMESTER

MATHEMATICS - III

(5 Lecture hours per week + 2 hours of problem working classes)

75 hours

1. GROUP THEORY

Normal subgroups-examples and problems-Quotient group-Homomorphism and Isomorphism of groups-Kernel and image of a homomorphism-Normality of the kernel- Fundamental theorem of homomorphism-properties related to isomorphism-Permutation group-Cay ley's theorem. (15 lecture hours)

2. LINEAR PROGRAMMING

Linear inequalities and their graphs. Statement of the linear programming problem in standard form-classification of solutions-solution of linear programming problems by graphical method.

Illustrative examples on the solution of linear programming problems in two and three variables by the simplex method. (Maximization and minimization)

Transportation problem:- North West rule, Vogel's method, Row minima method, Column minima method. (15 lecture hours)

3. SEQUENCES OF REAL NUMBERS

Definition of a sequence – Bounded sequences – limit of a sequences – convergent, divergent and oscillatory sequences – Monotonic sequences and their properties Cauchy's criterion. (12 lecture hours)

4. SERIES OF REAL NUMBERS

Definition of convergence, divergence and oscillation of series – properties of convergent series – properties of series of positive terms – Geometric series.

Tests for convergence of series – p – series – comparison of series – Cauchy's root test – D'Alembert's test, Raabe's test, - Absolute and conditional convergence – D'Alembert test for absolute convergence – Alternating series – Leibnitz test.

Summation of Binomial, Exponential, and Logarithmic series. (18 lecture hours)

5. DIFFERENTIAL CALCULUS

Recaptulation of Equivalence Class and partition of a set.

Definition of the limit of a function in $\epsilon - \delta$ form – continuity – types of discontinuities – properties of continuous function on a closed interval (boundedness, attainment of bounds and taking every value between bounds). Differentiability. Differentiability implies Continuity – converse not true. Rolle's Theorem – Lagrange's and Cauchy's

First Mean Value Theorems. Taylor's Theorem (Lagrange's form) - Maclaurin's expansion – Evaluation of limits by L'Hospital's rule. (15 lecture hours)

Suggested distribution of lecture hours

1. Groups Theory : 1 hour/ week
2. Linear Programming : 1 hour/ week
3. Sequences and series : 2 hours/week
4. Differential Calculus : 1 hour/ week

- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 3

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question	
I	Group Theory	4	2	30	
	Linear Programming	3			
	Sequences	4			
	Series	5			
	Diff. Calculus	4			
	Total	20			
II	Group Theory	4	2	5	10
III	Linear Programming	4	3	5	15
IV	Sequence	3	2	5	10
V	Series	5	3	5	15
VI	Diff. Calculus	4	2	5	10

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. Baumslag & Chandler Group Theory Schaum Series
2. Gupta Goyal Laplace and Fourier Transforms, Pragathi Prakashana Mandir
3. L S Srinath Linear Programming, East West
4. J B Fraleigh First course in Abstract Algebra, A Wesley
5. M D Raisinghanian Advanced Differential Calculus, S Chand

FOURTH SEMESTER

MATHEMATICS - IV

(5 Lecture hours per week + 2 hours of problem working classes)

1. **RINGS, INTEGRAL DOMAINS. FIELDS**

Rings, Types of Rings properties of rings – Rings of integers modulo n – Subrings – Ideals, Principal, Prime and Maximal ideals in a commutative ring – examples and standard properties following the definition-Homomorphism, Isomorphism- Properties – Quotient rings – Integral Domain- Fields - properties following the definition – Fundamental Theorem of Homomorphism of Rings - Every field is an integral domain - Every finite integral domain is a field - Problems(18 lecture hours)

2. **FOURIER SERIES**

Trigonometric Fourier series of functions with period 2π and period $2L$ – Half-range cosine and sine series. (10 lecture hours)

3. **DIFFERENTIAL CALCULUS**

Continuity and differentiability of functions of two and three variables- Taylor's theorem and expansions of functions of two variables-Maxima and minima of functions of two variables. Method of Lagrange multipliers. (10 lecture hours)

4. **INTEGRAL CALCULUS**

Gamma and Beta functions-results following definitions-Relations connecting the two functions-duplication formula-Applications to evaluation of integrals. (10 lecture hours)

5. **DIFFERENTIAL EQUATIONS**

Second and higher order ordinary linear differential equations with constant coefficients-complementary function-particular integrals (standard types)-Cauchy-Euler differential equation. Simultaneous linear differential equations (two variables) with constant coefficients. Solutions of second order ordinary linear differential equations with variable coefficients by the following methods:

(i) When a part of complementary function is given

(ii) Changing the independent variable

(iii) Changing the dependent variable

(iv) Variation of parameters

(v) Conditions for exactness and the solution when the equation is exact .

(15 lecture hours)

6. **LAPLACE TRANSFORMS**

Definition and basic properties-Laplace transforms of some common functions and standard results-Laplace transform of periodic functions-Laplace transforms of derivatives and the integral of a function-Laplace transforms, Heaviside function. Convolution theorem (Statement only) Inverse Laplace transforms-Laplace transform method of solving ordinary linear differential equations of first and second orders with constant coefficients. (12 lecture hours)

Suggested distribution of lecture hours

1. Ring Theory and Laplace Transform : 2 hours/ week
2. Differential Equations : 1 hour/ week
3. Fourier series, Differential and Integral Calculus: 2 hours/week

- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 4

Q.No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Rings	5	2	30
	Fourier Series	3		
	Diff. Calculus	3		
	Integral Calculus	3		
	Diff. Equations	4		
	Laplace Transform	2		
	Total	20		
II	Rings	5	3	15
III	Fourier Series	3	2	10
IV	Diff. and Integral	4	2	10
V	Diff. Equations	4	3	15
VI	Laplace Transforms	4	2	10

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. I N Herstein Topics in Algebra ,Vikas
2. S Shanthinarayan Differential Calculus ,S Chand
3. S Shanthinarayan Integral Calculus,S Chand
4. M G Smith Laplace Transform theory, Van – Nostrand

**FIFTH SEMESTER
MATHEMATICS - V**

(5 Lecture hours per week + 2 hours of problem working classes) , (75 hours)

1. LINEAR ALGEBRA

Vector space – Examples – Properties – Subspaces – criterion for a subset to be a subspace – linear span of a set - linear combination – linear independent and dependent subsets – Basis and dimensions – Standard properties – Examples illustrating concepts and results.

Linear transformations – properties – matrix of a linear transformation – change of basis – range and kernel – rank and nullity – Rank – Nullity theorem – Non-singular and singular linear transformations - Standard properties – Examples. (22 Lecture hours)

2. GEOMETRY OF SPACE CURVES

Vector function of a single scalar variable – its interpretation as a space curve – derivative – tangent, normal and binormal vectors to a space curve – Serret Frenet formulas with proof – simple geometrical applications. Finding curvature and torsion. Parametric forms.

Vector function of two scalar variables – its interpretation as a surface – Tangent plane and Normal to a surface - Normal line – parametric curves on a surface – parametric curves on the surfaces of a right circular cylinder and sphere – cylindrical to spherical and spherical polar coordinates.

Definition of orthogonal curvilinear coordinates. Fundamental vectors or base vectors, Scale factors or material factors - quadratic differential form. Spherical curvilinear system : Cartesian, Cylindrical – conversion of Cylindrical to orthogonal Spherical polar coordinates. Theorem: The Spherical coordinate system is orthogonal curvilinear coordinate system. (without proof) No problems on conversions of one system to another. (20 lecture hours)

3. VECTOR DIFFERENTIAL CALCULUS

Scalar field – gradient of a scalar field, geometrical meaning – directional derivative – Maximum directional derivative – Angle between two surfaces - vector field – divergence and curl of a vector field – solenoidal and irrotational fields – scalar and vector potentials – Laplacian of a scalar field – vector identities. Standard properties, Harmonic functions, Problems. (15 lecture hours)

FOURIER TRANSFORMS

The Fourier integral, Different forms of F.I, Problems complex Four. Transform, Self reciprocals, slit functions Basic properties of F.T, Linear, Change of scale, Shifting, Modulation. Derivation of a Function Extension.

Fourier sine and cosine Transform and Inverses properties, self reciprocal. The derivatives – theorems and problems. (18 lecture hours)

Suggested distribution of lecture hours.

1. Linear Algebra : 2 hours /week
2. Geometry of space curves and Vector Differential Calculus : 2. hours/week
3. Fourier Transforms. 1 hour/week

- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 5 – PAPER V

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Linear Algebra 6 Geometrical Space 5 Vector Diffn. 5 Fourier Transforms 4 Total 20	15	2	30
II	Linear Algebra 6	4	5	20
III	Geometrical Space 5	3	5	15
IV	Vector Diff. Calculus 5	3	5	15
V	Fourier Transforms 4	2	5	10

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. I N Herstein, Topics in Algebra, Vikas
2. B Spain, Vector Analysis, ELBS
3. D E Bournes P C Kendall, Vector Analysis
4. I N Sneddon, Fourier Transforms, Mc-Graw Hill

FIFTH SEMESTER

MATHEMATICS – VI

(5 lecture hours per week +2 hours of problem working classes)

75 hours

1. TOTAL DIFFERENTIAL EQUATIONS, SIMULTANEOUS EQUATIONS AND PARTIAL DIFFERENTIAL EQUATIONS

Total differential equations-Necessary condition for the equation $Pdx + Qdy + Rdz = 0$

be integrable-Simultaneous equations of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$

Formation of partial differential equation .Equations of First Order Lagrange's linear equation – Charpits method Standard types of first order non-linear partial differential equation (By known substitution).

Solution of second order linear partial differential equations in two variables with constant coefficients by finding complementary function and particular integral

Solution of one – dimensional heat equations, Solution of one – dimensional wave equations using Fourier series. (25 lecture hours)

2. SPECIAL FUNCTIONS

Polynomial solution of Legendre differential equation – Legendre polynomials – generating function – Recurrence relations – Rodrigue's formula – orthogonality.

Series Solution of Bessel differential equation – Bessel function $J_n(x)$ – Recurrence relations – generating function – orthogonality. (15 lecture hours)

3. NUMERICAL ANALYSIS

Finite differences – Definition and properties of $\Delta, \nabla, \delta, \mu$ and E , the relation between them – The n th differences of a polynomial, Factorial notations, separation of symbols, divided differences and related theorems.

Newton – Gregory forward and backward interpolation formulae – Lagrange's and Newton's interpolation formulae for unequal intervals - Inverse interpolation.

Numerical differential using forward and backward difference formulae - Computation of first and second derivatives.

Numerical Integration : Quadrature formula – Trapezoidal rule -Simpson's 1/3 and 3/8 rule(without proofs) and problems. (20 lecture hours)

4. **Mathematical Modeling**

Basic concepts. Real world problems, (Physics, Chemistry, Biology etc)
Approximation of the problem, Steps involved in modeling.

Mathematical models: Linear growth and decay model, Logistic model, model of Mass spring-dashpot (present in shock absorber. mechanical engineering problems)

Drug absorption from blood stream. Motion of a projectile. Current flow in electrical circuits, Vibration of string. (15 lecture hours)

Suggested distribution of lecture hours

1. Total and simultaneous Partial Differential Equations. 2: hours /week
 2. Special functions: 1 hour/week
 3. Numerical Analysis and Mathematical Modelling : 2hours/ week
- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 5 – PAPER VI

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question	
I	Total, Sim and p.d.e	6			
	Spl. Functions	5			
	Numerical Analysis	5	15	30	
	Mathematical model	4			
	Total	20			
II	Total, Sim. and pde	6	4	5	20
III	Spl. Functions	5	3	5	15
IV	Numerical Analysis	5	3	5	15
V	Mathematical model	4	2	5	10

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. I N Sneddon, An Introduction to PDE, Mc-Graw Hill
2. M K Jain, Iyengar, Jain Numerical methods for scientific & Eng Computation, Wiley Eastern Ltd.
3. J N Kapur, Mathematical Modelling, Wiley Eastern Ltd.
4. Martin Braun, Differential Equns and its applications Springer Verlag
5. M D Raisinghania, Advanced Differential Calculus, S Chand
6. Saran, Sharma, Trivedi Special Functions, Pragathi Prakashana Mandir
7. Coleman C. S and Drew D A, Differential Equation Models, Springer Verlag

SIXTH SEMESTER

MATHEMATICS – VII

(5 Lecture hours per week + 2 hours of problem working classes)

(75 hours)

1. COMPLEX ANALYSIS

Complex numbers - The complex plane-conjugate and modulus of a complex number-polar form-geometrical representation- Euler's formula: $e^{i\theta} = \cos\theta + i\sin\theta$

Function of a complex variable : Limit, continuity and differentiability.

Analytic function-Cauchy-Riemann equations in Cartesian and polar forms-Sufficiency conditions for analyticity in Cartesian form – standard properties of analytic functions-construction of analytic functions, given real or imaginary parts- Milne-Thomson method.

Transformations -definition of a conformal transformation. Examples.

Discussion of transformations : $w = z^2$, $w = \sin z$, $w = \cos z$, $w = e^z$, $w = \cosh z$, $w = \left(z + \frac{1}{z} \right)$

The bilinear transformation-cross ratio property-bilinear transformation transforms circles into circles or lines-problems thereon.

The complex line integral-Examples and properties. Cauchy's integral theorem (proof using Green's theorem) and its direct consequences. The Cauchy's integral formula for the function and the derivatives. Applications to evaluation of simple line integrals- Cauchy's inequality-Liouville's theorem-Fundamental theorem of algebra.

(30 lecture hours)

2. LINE AND MULTIPLE INTEGRALS

Definition of line integral and basic properties—examples on evaluation of line integrals.

Definition of a double integral – its conversion to iterated integrals – evaluation of double integrals by change of order of integration and by change of variables – Computation of plane and surface areas, volume underneath a surface and volume of revolution using double integrals.

Definition of a triple integral and evaluation - change of variables – volume as a triple integral.

(20 Lecture hours)

3. INTEGRAL THEOREMS

Green's theorem (with proof). Direct consequences of the theorem.

The Divergence theorem (with proof) – Direct consequences of the theorem.

The Stokes' theorem (with proof) – Direct consequences of the theorem.

(10 Lecture hours)

4. TOPOLOGY

Topology Definition, Open sets, Accumulation Points, interior, Exterior, Boundary, neighbourhood system, bases and sub bases, Bolzano-Weirstrass theorem (without proof), close set Heine-Borel theorem (without proof) Completeness, Topology of the line and plane. (15 lecture hours)

Suggested distribution of lecture hours :

1. Complex Analysis : 2 hours / week.
 2. Line and Multiple Integrals and Integral Theorems : 2 hours / week
 3. Topology : 1 hour/week
- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper: Semester 6 - PAPER VII

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Complex Analysis (upto transformation) 5 Remaining 3 Line and Multiple Int. 5 Int. Theorems 3 Prob. Distribution 4 Total 20	15	2	30
II	Complex Analysis (upto transformation) 5	3	5	15
III	Complex Analysis Remaining 3	2	5	10
IV	Line and Multiple Int. 5	3	5	15
V	Int. Theorems 3	2	5	10
VI	Topology 4	2	5	10

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. S Shanthinarayana Complex Analysis, S Chand
2. A R Vashista Complex Analysis, Krishna Prakashana Mandir
3. Saxena Finite Diff. Calculus & Numerical Analysis, S Chand
4. B Spain Vector Analysis, ELBS
5. Seymour Lipschutz General Topology, Schaum Series Chap 4 & 5

**SIXTH SEMESTER
MATHEMATICS - VIII**

(5 Lecture hours per week + 2 hours of problem working classes)

(75 hours)

1. PARTICLE DYNAMICS

- a) Newton's laws of motion – Conservative forces and potential energy - Definitions of work, kinetic energy and power.
Motion of a particle in a uniform force field – simple harmonic motion – Two dimensional motion of projectiles, Inclined plane.
- b) Tangential and Normal components of velocity and acceleration – Radial and Transverse components of velocity and acceleration - Constrained Motion of a particle under gravity along inside and outside of a circle.
Central force and central orbit – Theorem – Motion of a particle in a central force field, Both polar and Pedal forms – Determination of orbit from central forces and vice versa. (30 lecture hours)

2. CALCULUS OF VARIATIONS

Variation of a function $f = f(x, y, y')$ – variation of the corresponding functional – extremal of a functional – variational problem – Euler's equation and its particular forms – Examples – standard problems like geodesics, minimal surface of revolution hanging chain, Brachistochrone problem – Isoperimetric problems. (15 Lecture hours)

3. NUMERICAL ANALYSIS

- a) Solution of Algebraic and transcendental equations, method of successive bisection, method of false position and Newton-Raphson method.
Numerical solutions of non-homogeneous system - linear algebraic equations in 3 variables by Jacobi's and Gauss-Seidel methods-Computation of largest Eigen value of a square matrix by power method. Using Inverse Power Method Finding Least Eigen Value
- b) Solution of initial value problems by ordinary linear first order differential equations by Taylor's series, Euler's, modified Euler's, Picard's Method, Runge-Kutta method order four
Difference Equations : Basic definitions, order and degree, solution, formation of 1st and 2nd order, linear difference equation with constant coefficients, rules for finding CF.
Form Fibonacci difference equation and solve. Finding PI when $f(E) y_n = a^n$, $\cos kn$, $\sin kn$, $a^n \cos kn$, $a^n \sin kn$, $f(n)$, $a^n f(n)$. (30 lecture hours)

Suggested distribution of teaching work:

1. Particle Dynamics : 2 hours/week
 2. Calculus of variation : 1 hour/ week
 3. Numerical Analysis : 2 hours/week
- Two hours of problem working classes are to be conducted in batches of not more than 15 students per teacher, in each batch.

Format of Question Paper : Semester 6 - PAPER VIII

Q. No.	Topic and No. of subdivisions to be set in the topic	No. of subdivisions to be answered	Marks for each subdivision	Maximum Marks for the question
I	Partical Dynamics			
	(upto projectile) (a) 4	15	2	30
	Remaining (b) 4			
	Calculus of Variation 4			
	Numerical Analysis			
	upto Eigen value (b) 4			
Remaining part (NA)(b)4				
	Total 20			
II	Partical Dynamics (upto projectile) 4	3	5	15
III	Partical Dynamics Remaining 4	2	5	10
IV	Calculus of Variation 3	2	5	10
V	Numerical Analysis upto Eigen value 4	2	5	10
VI	Remaining part (NA) 4	3	5	15

Note: All questions are to be answered

Maximum Marks for the paper

Examination Marks: 90

Internal Assessment Marks: 10

Total Marks: 100

Books for Reference

1. Choriton, Text book of Dynamics, Van – Nostrand
2. C Fox, An introduction to the calculus of variation Oxford university press
3. S. Armugam and Somasundaram, ISAAC, Numerical Methods SCITECH publications

4797-BUP-300-Dec. 2009

BANGALORE UNIVERSITY
Syllabus, Scheme of Instruction & Examination for
B.Sc., Physics Semester Scheme (from 2014- 15)

Serial Number	Paper Number	Teaching hours per week	Examination duration	Maximum marks		Maximum total marks
				Final exam	IA	
01	PHY 101	4	3 hours	70	30	100
02	PHY 102	3	3 hours	35	15	50
03	PHY 201	4	3 hours	70	30	100
04	PHY 202	3	3 hours	35	15	50
05	PHY 301	4	3 hours	70	30	100
06	PHY 302	3	3 hours	35	15	50
07	PHY 401	4	3 hours	70	30	100
08	PHY 402	3	3 hours	35	15	50
09	PHY501	3	3 hours	70	30	100
10	PHY502	3	3 hours	35	15	50
11	PHY503	3	3 hours	70	30	100
12	PHY504	3	3 hours	35	15	50
13	PHY601	3	3 hours	70	30	100
14	PHY602	3	3hours	35	15	50
15	PHY603	3	3 hours	70	30	100
16	PHY604	3	3hours	35	15	50
Grand total						1200

Note-I:

- The paper number is a three digit number with ' 0 ' in the middle
- The digit to the left of ' 0 ' indicates the semester number
- Odd number to the right of ' 0 ' indicates a theory paper
- Even number to the right of ' 0 ' indicates a practical paper

Note-II:

The marks distribution for the final practical examination is as follows:

- | | |
|---|----------|
| 1. Writing formula, Explanation, Figure/circuit diagram | 05 Marks |
| 2. Setting up of the experiment & entering the observations
in the tabular column. | 20 Marks |
| 3. Calculation / Graph, Results with units | 05 Marks |
| 4. Class Records (to be valued at the time of practical examination) | 05 Marks |
| Total for the practical examination – 35 marks | |

Note-III:

A minimum of **EIGHT** (8) experiments must be performed in each practical paper

Syllabus for I Sem BSc, (Physics)
PHY-101: Mechanics, Oscillations and Properties of matter

Unit -1

Motion & Friction

Newton's laws of motion with illustrations (review); Enumeration of II law - Motion in a resistive medium; Examples of drag force, concept of terminal velocity; role of static and dynamic friction; Motion along inclined plane with and without frictional force; Use of free body diagrams

6 hours

Frames of reference

Inertial and Non inertial frames of reference; Galilean relativity; Postulates of special theory of relativity; Lorentz transformation equation (no derivation) ; mass energy equivalence; length contraction and time dilation

7 hours

Unit -2

Planetary & Satellite motion

Motion along a curve - radial and transverse components of acceleration; Newton's law of gravitation, Kepler's laws (statements only); Escape velocity and orbital velocity; Launching of artificial Satellite; Geostationary and geosynchronous satellites

5 hours

Work & Energy

Work done by a constant and variable force; Work energy theorem; Work and potential energy; examples of potential energy; Work done by gravitational force; Work done by a spring force; Conservative and non conservative force; Conservation of energy

4 hours

Surface tension

Molecular interpretation of surface tension; Surface energy; Angle of contact and wetting; Pressure difference across a curved surface; Interfacial tension; Drop weight method with necessary theory; Factors affecting surface tension

4 hours

Unit - 3

System of particles

Centre of mass of rigid bodies; Newton's law for a system of particles; Linear momentum for a particle and a system of particles; Conservation of linear momentum; System with varying mass; Rocket motion; Elastic and inelastic collisions (oblique)

5 hours

Moment of inertia

Review of rotational motion of Rigid bodies; Kinetic energy of rotation-Moment of Inertia of a body; Theorem of Moment of Inertia-Parallel and perpendicular axes theorem with proofs (2-D case); Calculation of moment of inertia of a disk, annular ring, solid sphere and rectangular bar; Conservation of angular momentum with illustrations

8 hours

Unit - 4

Oscillation

SHM; Simple and compound pendulum; damped oscillations; forced oscillations - concept of resonance; coupled oscillators

5 hours

Elasticity

Review of elastic properties; Relationship between three elastic constants; Poisson's ratio; Work done in stretching a wire; Bending of beams; Bending moment, Theory of single cantilever, Couple per unit twist, Torsional oscillations

8 hours

References

1. Fundamentals of Physics- RResnik, and D Halliday, Wiley 2001
2. Physics-Classical and Modern, FJKeller, EGettys and JJSkove, McGraw Hill Second Edition
3. Classical Mechanics-KNSreenivasaRao, Universities Press- Orient Longman
4. Concepts of Physics Vol (1)-HC Verma, Bharathi Bhavan Publishers, 2004 Edition
5. University Physics- FWSears, MW Zemansky & HDYoung, Narosa Publications- Delhi
6. Mechanics- JCUpadhaya, Ramprasad & Co, Agra
7. Mechanics- Berkeley Physics Course Vol(1)- Mittal, Knight & Rudermann, TMH Delhi, 1981
8. Mechanics- EMPurcell, McGraw Hill
9. Oscillations and Waves – DPKhandelwal, Himalaya Publishing House
10. Elements of Properties of matter - DSMathur, Shamlal Charitable Trust, Delhi, 1996
11. Properties of Matter - Brijlal & Subramanyam, SChand & Co, 1982
12. Newtonian Mechanics- APFrench, Nelson & Sons UK, 1971
13. Mechanics & Thermodynamics, GBasavaraju & Dipan Ghosh, TMH Publishing Limited, New Delhi
14. A treatise on general properties of matter, Sengupta and Chatterjee, (Fifth edition -2001) New Central Book Agency, Calcutta
15. Waves & Oscillations, PKMittal & Jai Dev Anand, Hari Anand Publications (1994)

PHY-102: Practical Physics – I

List of Experiments

1. Atwood machine – with photogate
2. Torsional pendulum – to determine C and Rigidity modulus
3. Spring mass- (a) static case to determine 'k'
(b) dynamic case to determine 'k'
(c) 'k' as a function of L of spring
4. Bar pendulum – effective length and T
5. Rigid pendulum – T and decay of amplitude
6. Coupled oscillator – string coupled with change of tension
7. Simple pendulum - dependence of T on amplitude
8. Rolling dumb bell - on parallel inclined rails
9. Verification of parallel and perpendicular axis theorem
10. Searle's double bar
11. Work done by variable force
12. Cantilever of negligible mass to find Young's modulus
13. q- by Stretching
14. Fly wheel
15. Verification of principle of conservation of energy
16. Determination of coefficients of static, kinetic and rolling frictions
17. q by uniform bending
18. q by single cantilever

Note: A minimum of EIGHT (8) experiments must be performed

Referenc

1. BSaraf etc, - Physics through experiments, Vikas Publications
2. DPKhandelwal – A Laboratory Manual of Physics for Undergraduate Classes, Vani Publications
3. Advanced Practical Physics for Students – Worsnop & Flint, Methuen & Co, London
4. An Advanced Course in Practical Physics , D Chattopadhyay, PC Rakshit, B Saha, New Central Book Agency (P) Limited, Kolkata, Sixth Revised Edition, 2002
5. BSC, Practical Physics, CLArora, SChand & Co, New Delhi, 2007 Revised Edition

Syllabus for II Sem BSc (Physics)
PHY-201: Thermal physics and Statistical mechanics

Unit - 1

Kinetic Theory of Gases

Basic assumptions of kinetic theory; Derivation of $pV = \frac{1}{3}mnc^2$ - deduction of perfect gas equation; Maxwell's law of distribution of velocity (*without derivation*) ; Calculation of most probable velocity, mean velocity and root mean square velocity; Derivation of expression for mean free path; Degrees of freedom and principle of equipartition of energy; Derivation of $U = \frac{3}{2}RT$, Specific heats of an ideal gas, atomicity of gases

7 hours

Transport Phenomena

Viscosity and thermal conduction in gases (*with derivation*) ; Relation between coefficient of viscosity and coefficient of thermal conductivity of a gas

2 hours

Real Gases

Derivation of van der Waal's equation of state; Andrews experiments on Carbon dioxide; Derivation of the critical constants; Comparison of van der Waal's isotherms with Andrew's isotherms

4 hours

Unit – 2

Basic Concepts and the Zeroth law of thermodynamics

Macroscopic and microscopic descriptions of a system; Thermal Equilibrium - Zeroth Law of Thermodynamics; Concept of temperature; Thermodynamic equilibrium; Thermodynamic coordinates - extensive and intensive; Equations of state; Various processes - PVT indicator diagrams

3 hours

First Law of Thermodynamics

The first law of Thermodynamics; Sign convention for heat and work; Work done in an isothermal process for an ideal gas; Internal energy as a state function; Application of the first law for (i) Cyclic Process (ii) Adiabatic Process (iii) Isochoric Process (iv) Isobaric Process and (v) Isothermal Process

3 hours

Second Law of Thermodynamics

Reversible and irreversible processes; Carnot Cycle and its efficiency (with derivation); Second law of thermodynamics (Kelvin's & Clausius' statements and their equivalence); Carnot Engine; Practical internal combustion engines - Otto and Diesel Cycles (qualitative treatment); Carnot theorem; The thermodynamic temperature scale; Refrigerator- Coefficient of performance

3 hours

Entropy

The concept of entropy; Entropy of an ideal gas; Entropy - reversible process, Entropy - irreversible process; Entropy and the second law; Clausius inequality; Principle of increase of entropy; Entropy change in (i) adiabatic process (ii) free expansion (iii) cyclic process (iv) isobaric process; TdS diagram of a Carnot cycle; Entropy and disorder

4 hours

Unit - 3

Thermodynamic potentials

Internal Energy; Enthalpy; Helmholtz free energy; Gibbs free energy and their significance; Maxwell's thermodynamic relations and their significance; TdS relations; Energy equations and Heat Capacity equations; Third law of thermodynamics (Nernst Heat theorem)

4 hours

Phase transitions of the first order

Melting, vaporization and sublimation; Condition of equilibrium of phases in terms of Gibbs potential; Clausius-Clapeyron equation - elevation of boiling point, depression of freezing point; Equilibrium between phases - triple point

3 hours

Classical Equilibrium Statistical Mechanics

Specification of the state of the system; Phase space; Microstates and macrostates; Thermodynamic probability and its calculation; Basic postulates; Entropy and thermodynamic probability; Calculation of temperature from statistical mechanics

6 hours

Unit - 4**Low Temperature Physics**

Methods of producing low temperatures: (i) Joule Thomson (Joule Kelvin / Throttling / Porous plug) experiment, Joule Thomson Coefficient, inversion temperature (ii) Adiabatic demagnetization - working and theory

4 hours

Liquefaction of gases

Cascade process; Regenerative cooling coupled with Joule Thomson cooling; Adiabatic expansion with Joule Thomson cooling (qualitative)

3 hours

Black Body Radiation

Black body radiation and its spectral energy distribution; Kirchhoff's law, Stefan-Boltzmann's law, Wien's displacement law, Rayleigh-Jeans law, Derivation of Planck's law, Radiation pressure (qualitative), Solar constant and its determination; Estimation of the surface temperature of the sun

6 hours

References

1. Fundamentals of Physics- RResnik, D Halliday and KS Krane, Asian Books Private Limited, New Delhi, 1994
2. Heat and Thermodynamics- M M Zemansky, (International Edition) McGraw Hill New Delhi, 1981
3. Heat & Thermodynamics, MWZemansky & RHDittman, McGraw Hill Book company, Fifth Print 1986
4. Heat and Thermodynamics- Brij Lal and N Subramanyam, SChand & Co, New Delhi -1985
5. Concepts of Physics Vol (1) and (2)- HC Verma, Bharathi Bhavan Publications, New Delhi, 1996
6. Heat and Thermodynamics - DS Mathur, SChand & Co, New Delhi, 5th Edition(2004)
7. Heat, Thermodynamics & Stastical Mechanics, BrijLal & Subramanyam, SChand & Company
8. Thermodynamics & Statistical Physics, Sharma & Sarkar, Himalaya Publishing House, Third Edition(1991)
9. Thermodynamics, Kinetic theory & Statistical Thermodynamics, FWSears & GLSalinger, Narosa Publishing House (Third Edition)
10. Mechanics & Thermodynamics, GBasavaraju & Dipan Ghosh, TMH Publishing Limited, New Delhi, 1984
11. Fundamentals of Classical Thermodynamics, Gordon J V Wylen & Richard E Sonntag, Wiley Eastern Limited
12. Thermal Physics, S C Garg, R M Bansal & C K Ghosh, TMH Publishing Company, New Delhi
13. Statistical Physics, Thermodynamics & Kinetic theory, V S Bhatia, SChand & Co, (5th Edition-1993)
14. Perspectives of Modern Physics, Arthur Beiser, McGraw hillo Book Company, Fourth Edition, 1987
15. Thermal Physics, BKAgarwal, Lokbharathi Publications, Allahabad, Third Edition 1993
16. Elements of Statistical Mechanics, Kamal Singh & SPSingh, SChand & Co, (IInd Edition, 1992)

17. Theory & Problems of Thermodynamics, Michael M Abbott & Hendrick C Van Ness, Schaum's Outline Series, McGraw Hill International Book Company, Singapore
18. University Physics-Sears & MW Zemansky
19. Fundamentals of Statistical and Thermal Physics -F Reif
20. Mechanics and Thermodynamics, C Basavaraju and D Ghosh
21. Thermal Physics- C Kittel
22. Thermal Physics - Chakraborty

PHY-202: Practical Physics – II

List of Experiments

1. Specific heat by Newton's law of cooling
2. Specific heat of water using a thermistor
3. Thermal conductivity of a bad conductor by Lee's and Charlton's method
4. Thermal conductivity of rubber
5. Determination of thermal conductivity of a good conductor by Angstrom method / Searle's method
6. Thermal behavior of a torch filament
7. γ - by measuring velocity of sound- using CRO
8. Verification of Newton's law of cooling and Stefan's law of radiation
9. Determination of Stefan's constant by emissivity method
10. Calibration of thermocouple for Temperature measurement
11. Verification of Clausius-Clapeyron equation using pressure cooker
12. Determination of Solar constant
13. Monte Carlo experiment & error analysis
14. Verification of Maxwell's distribution of velocity
15. Maxwellian distribution of velocities for electron using EZ81 vacuum diode
16. Dice experiment – to study statistical nature of results

Note: A minimum of EIGHT (8) experiments must be performed

References:

1. BSaraf etc, - Physics through experiments, Vikas Publications
2. DPKhandelwal – A Laboratory Manual of Physics for Undergraduate Classes, Vani Publications
3. Advanced Practical Physics for Students – Worsnop & Flint, Methuen & Co, London
4. An Advanced Course in Practical Physics , D Chattopadhyay, PC Rakshit, B Saha, New Central Book Agency (P) Limited, Kolkata, Sixth Revised Edition, 2002
5. BSC, Practical Physics, CLArora, SChand & Co, New Delhi, 2007 Revised Edition

Syllabus for III Sem BSc (Physics)
PHY-301: Electricity and Magnetism

Unit - 1

Electric field and potential Review:

Electrostatic field and intensity; Electrostatic potential; Relation between field and potential 1 hour
Electric dipole, potential and intensity at any point due to a dipole 2 hours

Network theorems

Superposition theorem; Thevenin's theorem; Norton's theorem; Maximum power transfer theorem (for dc circuits - with problems) 5 hours

Magnetic fields and forces

Motion of charged particles in a magnetic field; Magnetic force on a current carrying conductor; Force and torque on a current loop, Concept of dead beat; Theory of a BG, Determination of high resistance by leakage 5 hours

Unit - 2

Source of magnetic field

Magnetic field due to moving charge, Biot and Savart's law; Magnetic field due to a straight current carrying conductor; Force between parallel conductors; Definition of ampere; Magnetic field of a circular loop; Theory of HTG; Field on the axis of a solenoid, Ampere's law, Application of Ampere's law to straight wire, solenoid and toroid 10 hours

Electromagnetic induction

Faraday's laws; Lenz's law; Expression for induced emf; motional emf; eddy currents and applications 3 hours

Unit - 3

Transient currents

Self inductance; Magnetic field energy stored in an inductor; Growth and decay of current in RC, LR, LCR circuits; Damped, under-damped and over-damped conditions 5 hours

Scalar and vector fields

Gradient of a scalar function; Relation between field and potential; Divergence and curl product rules; Line, surface and volume integrals; Fundamental theorem of divergence and curl (statements only) 3 hours

Electromagnetic waves

Maxwell's equations (derivation and significance) ; Electromagnetic waves - Derivation of wave equation, Velocity of em waves, Relation between refractive index and permittivity, Plane em waves, Energy and momentum, Significance of Poynting vector 5 hours

Unit - 4

Alternating current

Alternating current circuits, Resistance, Reactance and Impedance; LCR series and parallel circuits (vector method), Resonance, Power in ac circuits, Representation of sinusoids by complex numbers, ac bridge - Maxwell bridge 6 hours

Thermoelectricity

Seebeck effect; Thermoelectric series; Neutral temperature; Laws of thermoelectricity; Peltier effect, Demonstration of Peltier effect, Peltier coefficient; Thomson effect, Demonstration of Thomson effect, Thomson coefficient; Theory of thermoelectric circuits using thermodynamics; Thermoelectric diagrams and uses; Applications of thermoelectricity - Boy's radio micrometer, thermopile and thermoelectric pyrometer 7 hours

References

1. Electricity and magnetism by Brij Lal and N Subrahmanyam, Rathan Prakashan Mandir, Nineteenth Edition, 1993
2. Principles of Electronics by VK Mehta and Rohit Mehta, SChand & Company, Eleventh Edition, 2008
3. Feynman Lecture series, VolIII, RPFeynman et al, Narosa Publishing House, New Delhi
4. Electricity & Magnetism, NSKhare & SSSrivastava, AtmaRam & Sons, New Delhi
5. Electricity & Magnetism, DLSehgal, KLChopra, NKSehgal, SChand & Co, Sixth Edition, (1988)
6. Electricity & Electronics, DCTayal, Himalaya Publishing House, Sixth Edition(1988)
7. Basic Electronics & Linear Circuits, NN Bhargava, DC Kulshrestha & SC Gupta, TMH Publishing Company Limited, 28th Reprint,1999
8. Fundamentals of Physics by Halliday, Resnick and Walker, Asian Books Private Limited, New Delhi, 5th Edition,1994
9. Introduction to Electrodynamics by DJ Griffiths
10. Electromagnetism by BB Laud
11. Electrical Networks, Theraja
12. Electrical Networks, Malvino

PHY - 302: Practical Physics – III**List of Experiments**

1. To find L and C by equal voltage method
2. Energy consumption in an electrical circuit - to find power factor
3. Resonance in LCR series circuit
4. Resonance in LCR parallel circuit
5. Mirror galvanometer- figure of merit
6. High resistance by leakage using BG
7. Thermoelectric circuit - find Seebeck coefficients
8. Study of thermo emf as a heat pump
9. Black box - identify & measure R, L and C
10. Verification of Thevenin's theorem
11. Verification of Superposition theorem
12. Verification of maximum power transfer theorem
13. Maxwell's impedance bridge
14. Desauty's bridge
15. Anderson's bridge

Note: A minimum of EIGHT (8) experiments must be performed

References:

1. Physics through experiments, BSaraf etc, Vikas Publications
2. Advanced practical physics, Chauhan & Singh, Pragathi Publications
3. Practical Physics, DChattopadhyaya et al, Central Publications
4. An Advanced Course in Practical Physics , D Chattopadhyay, PC Rakshit, B Saha, New Central Book Agency (P) Limited, Kolkata, Sixth Revised Edition, 2002
5. Practical Physics, TCTayal

Syllabus for IV Sem BSc (physics)**PHY- 401: Physical Optics, Lasers and Fibre optics****Unit - 1****Wave Theory**

Huygens' wave theory of light; Huygens' Principle; Construction Huygens' wave front; Laws of reflection and refraction using spherical wave front at a plane surface

3 hours

Interference – a Review:

Coherent sources and their production; Conditions for observing interference; Conditions for constructive and destructive interference

1 hour

Coherent sources by wavefront division

Biprism-theory and working, experiment to determine wavelength; Effect of thin film in the path of one of the beams; Calculation of thickness of the film

5 hours

Coherent sources by amplitude division:

Interference at thin films - reflected and transmitted light Colours of thin films; Theory and experiment of air wedge; Theory and experiment of Newton's rings

4 hours

Unit - 2**Diffraction - Fresnel diffraction**

Division of wavefront into Fresnel's half period zones; Theory of rectilinear propagation using these ideas; Construction and working of Zone plate; Comparison of Zone plate with lens; Theory of diffraction at a straight edge

7 hours

Fraunhofer diffraction

Theory of single slit diffraction; Theory of grating - normal and oblique incidence - Experimental determination of wavelength; Discussion of Dispersive power; Resolution, Rayleigh's criterion; Expression for resolving power of grating and telescope; Comparison of prism and grating spectra

6 hours

Unit - 3**Lasers**

Introduction; Spontaneous and stimulated emission; Einstein's coefficients and optical amplification; Population inversion; Main components of a laser; Lasing action; Ruby Laser - construction and working - energy level diagram; He-Ne Laser - construction and working - energy level diagram; Fiber Laser - Master Oscillator power amplifier; Solid State Laser - construction and working; Applications of Lasers - Holography, bloodless surgery (principles only)

7 hours

Polarization

Review of plane polarized light and method of production; Double refraction at crystals; Huygens' explanation of double refraction; Theory of retarding plates - Quarter wave plates and Half wave plates; Production and detection of linearly, elliptically and circularly polarized light; Optical activity - Fresnel's explanation Laurent's half shade polarimeter

6 hours

Unit - 4**Optical Fibres**

Optical fiber-principle, description and classification; Why glass fibers? Coherent bundle; Numerical aperture of fiber; Attenuation in optical fibers - limit Multimode optical fibers; Ray dispersion in multimode step index fibers; Dispersion due to material; Dispersion and maximum bit rates; Fiber optic sensors

8 hours

Modes in fibres

Introduction; Modes in fibers Symmetric step index planar waveguide TE modes; Propagation constants; Field distribution; Physical understanding of modes; TM modes of a symmetric step index planar wave guide

5 hours

References

1. Introduction to Modern Optics, Tata McGraw Hill Publications (2009)
2. Fundamentals of Physics by Halliday, Resnick and Walker, Asian Books Private Limited, New Delhi, 5th Edition, 1994
3. A K Ghatak and K Thyagarajan, Contemporary Optics, Macmillan
4. Jenkins and White, Optics, McGraw Hill
5. Optics, BrijLal and Subramaniam, SChand & Company, 22nd Edition, 1994
6. Principles of Optics, B K Mathur, Gopal Printing Press, Kanpur, 6th Edition, 1996
7. An Introduction to LASERS-Theory & Applications, MNAvadhanulu, SChand & Co, (2001)
8. Introduction to Fibre Optics, Ajoy Ghatak & K Thyagarajan, Cambridge University Press, First Edition Reprint, 2002
9. Optical Fibre Communications, Gerd Keiser, McGraw Hill, 3rd Edition, 2000
10. Fibre Optic Communication, DCAgarwal, Wheeler Publications, Second Edition Reprint, 1996
11. Optics, Klein and Furtak, Wiley Publications
12. B B Laud, Lasers, Wiley Eastern

PHY-402: Practical Physics – IV**List of Experiments**

1. Verification of Brewster's law
2. Refractive index of a liquid by parallax method
3. Biprism – determination of wavelength of light
4. Air wedge – determination of thickness of object
5. Newton's rings – determination of radius of curvature of lens surface
6. Diffraction grating in minimum deviation position
7. Diffraction grating in normal incidence position
8. Resolving power of telescope
9. Diffraction at straight edge
10. Polarimeter – determination of specific rotation of a solution
11. Diffraction of LASER at a wire
12. Measurement of numerical aperture of an optical fibre
13. Fraunhofer diffraction of LASER at single slit
14. Diffraction of LASER at graduations of a metal scale

Note: A minimum of EIGHT (8) experiments must be performed

References:

1. An Advanced Course in Practical Physics, D Chattopadhyay, PC Rakshit, B Saha, New Central Book Agency (P) Limited, Kolkata, Sixth Revised Edition, 2002
2. Practical Physics, Experiments with He-Ne laser, RSSirohi
3. Advanced Practical Physics, Wirsnop & Flint
4. BSc, Practical Physics, CLArora, SChand & Company, New Delhi, Revised Edition, 2007

General References:

1. College Physics, Raymond A Serway & Jerry S Faughn, Thomson Brooks / Cole (sixth Edition)
2. Scientia Physics, Avinash Sharma, CBS Publishers & Distributors, New Delhi (First Edition 2000)
3. Principles of Physics, Frederick J Bueche & David A Jerde, McGraw Hill Inc (Sixth Edition)
4. University Physics, Hugh D Young & Roger A Fredman, Addison Wesley Longman Inc, (Ninth Edition), Pinnacle Distributors, New Delhi
5. Understanding Physics, Karen Cummings, Priscilla Laws, Edward Redish & Patrick Cooney, Wiley India, 2006 Reprint
6. College Physics, Serway

Syllabus for V Sem. B.Sc. (Physics)
PHY 501: Quantum Statistical Physics, Quantum Mechanics-I and II

Unit-1: Statistical Physics

Maxwell – Boltzmann distribution function (with derivation) **1 hour**

Bose-Einstein Statistics

B-E distribution law (with derivation), Bose-Einstein condensation properties of liquid He (qualitative description). Radiation as photon gas. Bose's derivation of Planck's law, Rayleigh-Jeans law, Wein's law, Thermodynamic functions of photon gas. Specific Heat capacity of metals. **9 hours**

Fermi – Dirac Statistics

Fermi-Dirac distribution function (with derivation), Fermi sphere and Fermi energy, Fermi gas, Electronic heat capacity in metals.

Comparison of Maxwell – Boltzmann, Bose – Einstein and Fermi – Dirac distribution functions. **5 hours**

Unit-2: Quantum Mechanics-I

Introduction to quantum mechanics : Planck's quantum theory, failure of classical physics to explain the phenomena such as stability of atom, atomic spectra, black body radiation, photo electric effect, Compton effect and specific heat of solids . Explanation of the above effects on the basis of quantum mechanics. **5 hours**

De Broglie's hypothesis of matter waves, Thomson's experiment, Davisson and Germer's experiment – normal incidence method, concepts of packets for quantum particle, group velocity and phase velocity, relation between particle velocity and group velocity. Heisenberg's uncertainty principle - different forms, Gamma ray microscope experiment, applications. **10 hours**

Unit-3: Quantum mechanics-II

The concept of wave function, physical significance of wave function. Development of time dependent and time independent Schrodinger's wave equation. Max Born's interpretation of the wave function. Normalization and expectation values, Quantum mechanical operators, Eigen values and Eigen functions. Applications of Schrodinger's equation – free particle, particle in one dimensional box- derivation of Eigen values and Eigen function – extension to three dimensional box; Development of Schrodinger's equation for One dimensional Linear harmonic oscillator, Rigid rotator, Hydrogen atom – mention of Eigen function and Eigen value for ground state. **15 hours**

References :

1. Quantum Mechanics, *B.H. Bransden and C.J. Joachain*, 2nd Edition, Pearson Education (2004)
2. Introduction to Quantum Mechanics, *David J. Griffiths*, 2nd Edition, Pearson Education (2005)
3. Modern Quantum Mechanics, *J.J. Sakurai*, Pearson Education, (2000)
4. Principles of Quantum Mechanics, *Ghatak and Lokanathan*, Macmillan, (2004)
5. Statistical Mechanics, An Introduction, *Evelyn Guha*, Narosa (2008)
6. Statistical Mechanics, *R.K.Pathria*, 2nd edition, Pergamon Press (1972)
7. Statistical and Thermal physics, *F.Reif*, McGraw Hill International(1985)
8. Statistical Mechanics, *K.Huang*, Wiley Eastern Limited, New Delhi (1975)

PHY-502: Practical Physics V (A)

1. Analysis of X-ray diffraction pattern obtained by powder method to determine properties of crystals.
2. Determination of Fermi energy of a metal.
3. Determination of thermal conductivity of a metal by Forbe's method.
4. Measurement of heat capacity of metals.
5. Characteristics of a photo cell-determination of stopping potential.
6. Determination of Planck's constant.
7. Characteristics and spectral response (selenium photocell)
8. Hysteresis loop for iron and finding energy loss per cycle
9. Applications of CRO in the (a) study of Lissajous figures (b) calculation of rms voltage (c) calculation of frequency of AC.
10. Regulated power supply (using zener diode).
11. Determination of transistor h-parameters.
12. Frequency response of a CE amplifier.
13. Transistor as a switch and active device.
14. Construction of RFO or AFO - using transistor
15. Emitter follower

Note: A minimum of EIGHT experiments must be performed.

References :

1. Worsnop and Flint , Advanced practical physics for students, Asia Pub.(1979)
2. Singh and Chauhan, Advanced practical physics, 2 vols., Pragati prakashan, (1976)
3. Misra and Misra, Physics Lab. Manual, South Asian publishers (2000)
4. Gupta and Kumar, Practical physics, Pragati prakashan, (1976)
5. Ramalingom & Raghuopalan : A Lab. Course in Electronics
6. Bharagav et al : Electronics, TTI

PHY- 503: Astrophysics, Solid State Physics and Semiconductor Physics

Unit-1: Astrophysics

Parallax and distance: Heliocentric parallax, Definition of parsec (pc), Astronomical unit (AU), light year (ly) and their relations.

Luminosity of stars: Apparent brightness, Apparent magnitude - scale of Hipparchus. Absolute magnitude - distance - modulus relationship. Distinction between visual and bolometric magnitudes, Radius of a star. **3 hours**

Stellar classification: Pickering classification and Yerke's luminosity classification. H-R diagram, Main sequence stars and their general characteristics.

Gravitational potential energy or self energy of a star based on the linear density model, Statement and explanation of Virial theorem.

Surface or effective temperature and color of a star : Wien's displacement law. Expressions for - average temperature, core temperature, hydrostatic equilibrium, core pressure of a star based on the linear density model of a star. Photon diffusion time (qualitative), Mass - Luminosity relationship and expression for lifetime of a star. **7 hours**

Evolution of stars: Stages of star formation (GMC - Protostar- T-Tauri) and main sequence evolution, White dwarfs, Pulsars, Neutron stars and Black holes, Variable stars, Supernova explosion- its types, Chandrasekhar limit. Event horizon, singularity and Schwarzschild's radius (qualitative) **5 hours**

Unit-2: Solid State Physics

Crystal systems and X-rays: Crystal systems-Bravais lattice; Miller indices- Spacing between lattice planes of cubic crystals, Continuous and characteristic X-ray spectra; Moseley's law, Scattering of X-rays - Compton effect, Bragg's law. **4 hours**

Free electron theory of metals : Electrical conductivity- classical theory (Drude-Lorentz model) ; Thermal conductivity; Wiedemann - Franz's law; Density of states for free electrons; Fermi-Dirac distribution function and Fermi energy; Expression for Fermi energy and Kinetic energy at absolute zero. Hall Effect in metals **5 hours**

Band theory of solids: Elementary ideas regarding formation of energy bands; Bloch theorem; One dimensional Kronig-Penney model; Effective mass; Energy gap. **4 hours**

Superconductivity : Introduction - Experimental facts - Zero resistivity - The critical field - The critical current density - Meissner effect ,Type I and type II superconductors- BCS Theory (qualitative). **2 hours**

Unit-3: Semiconductor Physics

Semiconductors: Distinction between metals, semiconductors and insulators based on band theory. Intrinsic semiconductors - concept of holes - effective mass - expression for carrier concentration and electrical conductivity - extrinsic semiconductors - impurity states in energy band diagram and the Fermi level.

Semiconductor devices: Formation of P-N junction, depletion region, Biased P-N junction, variation of width of the depletion region, drift and diffusion current -expression for diode current. **6 hours**

Special Diodes: Zener diode - characteristics and its use as a voltage regulator. Photo diodes, Solar cells and LED (principle, working and applications). **4 hours**

Transistors: Transistor action, Characteristics (CE mode), Biasing, Load line analysis - Transistor as an amplifier(CE mode). h-parameters **5 hours**

References

1. Astronomy : Fundamentals and Frontiers – **Jastrow & Thompson**
2. Chandrashekhar and his limit – **G. Venkataraman**
3. An introduction to Astrophysics – **Baidyanath Basu**
4. Astrophysics Concepts, **M. Herwit**: John Wiley, 1990.
5. Astrophysics. **Krishnaswamy** (ed)
6. Introduction to solid State Physics, **Charles Kittel**, VII edition, 1996.
7. Solid State Physics- **A J Dekker**, MacMillan India Ltd, (2000)
8. Elementary Solid State Physic, **J P Srivastava**, PHI,(2008)
9. Essential of crystallography, **M A Wahab**, Narosa Publications (2009)
10. Solid State Physics-**F W Ashcroft and A D Mermin**-Saunders College (1976)
11. Solid State Physics-**S O Pillai**-New Age Int. Publishers (2001)

PHY –504: Practical Physics V (B)

1. Parallax Method – Distance of objects using trigonometric parallax.
2. HR Diagram & the physical properties of stars.
3. Analysis of stellar spectra.
4. Determination of temperature of a star (artificial) using filters.
5. Analysis of sunspot photographs & solar rotation period.
6. Mass luminosity curve – Estimation of mass of a star.
7. Mass of binary stars.
8. Resistivity of a material by four probe method.
9. Semiconductor temperature sensor.
10. Temperature coefficient of resistance and energy gap of thermistor.
11. LED characteristics and spectral response.
12. LDR characteristics – dark resistance – saturation resistance.
13. Solar cell characteristics – Open circuit voltage – short circuit current – efficiency.
14. Study of Hall effect in a metal.
15. Characteristics of LASER diode.
16. Spectral response of a photodiode and its I – V characteristics.

Note: A minimum of EIGHT experiments must be performed.

References :

1. IGNOU : Practical Physics Manual
2. Saraf : Experiment in Physics
3. S.P. Singh : Advanced Practical Physics
4. Melissons : Experiments in Modern Physics
5. Misra and Misra, Physics Lab. Manual, South Asian publishers, 2000
6. Gupta and Kumar, Practical physics, Pragati prakashan, 1976
7. Ramalingom & Raghuopalan : A Lab. Course in Electronics
8. Bharagav et al : Electronics, TTI

Syllabus for VI Sem. B.Sc. (Physics)
PHY- 601: Atomic and Molecular Physics, Nuclear Physics and Material Science

Unit-1: Atomic and Molecular Physics

Vector Model of the Atom

Review of Bohr's theory of hydrogen atom, Sommerfeld's modification of the Bohr atomic model (qualitative). Spatial quantization and spinning electron. Different quantum numbers associated with the vector atom model, Spectral terms and their notations, Selection rules, Coupling schemes (*l-s* and *j-j* coupling in multi electron systems), Pauli's Exclusion Principle, Expression for maximum number of electrons in an orbit. Spectra of alkali elements (sodium D-line), Larmor precession, Bohr magneton, Stern-Gerlach Experiment. Zeeman Effect- Experimental study, theory of normal and anomalous Zeeman effect based on quantum theory.

10 hours

Molecular Physics: Pure rotational motion, Spectrum and selection rules; Vibrational motion, vibrational spectrum and selection rules; Rotation-Vibration spectrum; Scattering of light- Tyndall scattering, Rayleigh scattering and Raman scattering. Experimental study of Raman effect, Quantum theory of Raman effect - Applications.

5 hours

Unit-2: Nuclear Physics

Alpha particle scattering: Rutherford's theory of alpha scattering (assuming the path to be hyperbolic).

Alpha decay: Gamow's theory of alpha decay, Q-value of alpha decay, Exact energy of alpha particle emitted, characteristics of alpha spectrum. Geiger- Nuttal law.

Beta decay : Types of beta decay (electron, positron decay and electron capture). Characteristics of beta spectrum and Pauli's neutrino hypothesis.

8 hours

Detectors : Variation of ionization current with applied voltage in a gas counter, GM Counter.

2 hours

Particle accelerators: Cyclotron, Electron Synchrotron.

2 hours

Nuclear reactions: Types of Nuclear reactions. Conservation laws. Expression for Q value of a nuclear reaction - Endoergic and Exoergic reactions, threshold energy.

3 hours

Unit-3: Material Science

Nanomaterials - Synthesis techniques (Top down & bottom up)- Electron confinement-Size effect-Surface to volume ratio; distinction between nanomaterials and bulk materials in terms of energy band. Distinct properties of nano materials. Classification of Nanosystems - quantum dots, nanowires and nanofilms. Multilayered materials- Graphene, Fullerene, Carbon Nano Tube (CNT), Mention of applications of nanomaterials.

5 hours

Dielectrics : Static dielectric constant, polarizability (electronic, ionic and orientation), calculation of Lorentz field (derivation), Clausius-Mosotti equation (derivation), dielectric breakdown, electrostriction (qualitative), electrets. Piezo electric effect, cause, examples and applications.

5 hours

Liquid Crystals : Classification-Thermotropic and lyotropic. Properties - anisotropy in dielectric constant, electrical conductivity, magnetic susceptibility, refractive index and elasticity. Applications: construction and operation of twisted nematic display and thermography.

5 hours

References

1. Concepts of Modern Physics, **Beiser** 3rd edition, Student edition, New Delhi (1981).
2. Introduction to Atomic Physics – **H.E. White**
3. Introduction to Modern Physics – **H.S. Mani, G.K. Mehta**-West Press (1989).
4. Principles of Modern Physics, **A.P. French**, John Wiley, London (1958).
5. Modern Physics - **S.N. Ghosal**, Part 1 and 2 S. Chand and Company (1996).
6. Physics of the Atom, **Wehr et. al.** McGraw Hill
7. Atomic and Nuclear Physics, **S. N. Ghoshal**: Vol. II. (2000).
8. Alpha, beta and gamma spectroscopy, **K. Seighbahn**: Vol. I and II, John Wiley (1967)
9. N. Rudraiah (Ed) : Modelling of Nano and smart materials
10. Introduction to solid State Physics, **Charles Kittel**, VII edition(1996).
11. Solid State Physics- **A. J. Dekker**, MacMillan India Ltd. (2000).
12. Elementary Solid State Physics, **J. P. Srivastava**, PHI (2008).
13. Modern physics, **Murugeshan et al.**
14. Nano materials, **K. P. Bandopadhyay**.
15. Nanocrystals, **C. N. Rao, P. John Thomas**.
16. Nanotubes and wires, **C. N. Rao, A. Govindaraj**.

PHY- 602: Practical Physics VI (A)

1. Study of hydrogen spectrum.
2. Sommerfeld's fine structure constant determination.
3. Determination of e/m by Thomson's method.
4. Characteristics of GM counter.
5. Verification of inverse square law using GM counter (with a radioactive source).
6. Determination of mass absorption coefficient of gamma rays.
7. Determination of half-life of K^{40} .
8. Millikan's Oil drop experiment
9. Determination of phase transition temperature of liquid crystal and Identification of mesophases.
10. Analysis of band spectrum of PN molecule.
11. Analysis of rotational spectrum of nitrogen.
12. Analysis of rotational vibrational spectrum of a diatomic molecule (HBr).
13. Absorption spectrum of $KMnO_4$.
14. Determination of dielectric constant.
15. Determination of dipole moment of organic liquid

Note: A minimum of EIGHT(8) experiments must be performed.

References:

1. IGNOU : Practical Physics Manual
2. Saraf : Experiment in Physics
3. S.P. Singh : Advanced Practical Physics
4. Melissons : Experiments in Modern Physics
5. Misra and Misra, Physics Lab. Manual, South Asian publishers, 2000
6. Gupta and Kumar, Practical physics, Pragati prakashan, 1976

PHY-603: Atmospheric Physics, Electronics and Computational Physics

Unit-1: Atmospheric Physics and Earth's Atmosphere

Origin and composition of atmosphere:

Fixed and variable gases, Mechanism of production and destruction of atmospheric constituents, Different layers of atmosphere. **2 hours**

Temperature structure of the atmosphere:

Vertical profile and horizontal distribution, Pressure (over land and ocean), Variation of pressure with altitude, hydrostatic equation, Relative and Absolute humidity, Density (over land and ocean), wind (speed and direction). **3 hours**

Sun's Radiation

Spectrum of radiation (EM spectrum, Visible range, diffuse radiation), Black body radiation (Planck's law, emission curves from Sun and Earth atmosphere), Absorption of solar radiation by earth's atmosphere (absorption and emission of radiation by molecules, absorptivity, emissivity, Kirchoff's law, reflectivity and transmittivity), Beer's law (derivation), Global energy balance for earth – atmosphere system, Green house effect. **4 hours**

Atmospheric motions

Atmosphere dynamics – Eulerian and Lagrangian approaches; Accelerated rotational frames of reference – Centripetal and Coriolis force, Gravity and pressure gradient forces (with derivation); Applications of Coriolis force – Formation of trade winds, cyclones, erosion of river banks. **6 hours**

Unit-2: Electronics

Integrated circuits

Monolithic IC - description of discrete IC - Techniques of manufacturing thin film and thick film IC. **2 hours**

Operational amplifiers

Ideal OP amplifier characteristics. The basic op-amp circuits, Inverting amplifier, Non-inverting amplifier; Applications of op-amp – summer, integrator, differentiator. **3 hours**

Oscillators

Feedback concepts - oscillator circuits - Feedback amplifier - oscillator operation – Barkhausen Criterion - phase and frequency considerations- phase shift oscillator and Wien bridge oscillator (using op amp). **3 hours**

Digital Electronics

Logic states; Voltage range of high and low logic states; Number codes; Hexadecimal representation; BCD; signed numbers; Arithmetic 1's and 2's complement; Gray code.

Logic gates and truth tables; OR gate, AND gate; Inverter (the NOT function); NAND and NOR; exclusive OR; exclusive NOR. **5 hours**

Combination logic: Adders (full and half adder) & Subtractors (full and half).

2 hours

Unit-3: Computational Methods in Physics (using C-program)

Basics of C Language:

Program structure in C, Constants and Variables, Input and output statements, Arithmetic and conditional operations, conditional structure, Looping structures, one dimensional Arrays, programs to solve linear and quadratic equations. **3 hours**

Algorithms: modeling and simulation in physics: Errors in numerical calculations. **1 hours**

Roots of an equation : Newton-Raphson method and Bisection method. Application using Bisection method for LCR transient circuit (to determine R for given values of L and C for a pre-specified rate of dissipation of energy), program in C. **3 hours**

Numerical Integration: Simpson's 1/3 rule, Simpson's 3/8 rule, Applications - calculation of time period of a simple pendulum, rms current of ac, work done by variable force. **2 hours**

Numerical Differentiation: Newton – Forward and Backward formulae. Application: Problem on heat current: $H = -kA \frac{dT}{dx}$ **2 hours**

Ordinary Differential equation: Euler's method, Runge – Kutta II and IV order methods. Applications: Freely falling body in a resistive medium with resistance proportional to velocity, Projectile motion, LCR transient circuit, solution to Schrödinger wave equation for Harmonic potential (plotting wave function only). **4 hours**

References

1. Basics of Atmospheric Science by **A Chandrashekar**, PHI Publications (2010).
2. Weather, climate and atmosphere by **Siddartha**.
3. Atmospheric Science by **John M Wallace and Peter V Hobbs**, Elsevier Publications (2006).
4. Introduction to Atmospheric Science by **Turberick and Lutzens**, Elsevier Publications
5. Computational Physics, An Introduction by **R C Verma, Ahluwalia, Sharma**
6. A first Course in Computational Physics by **Paul L. DeVries, Javier E. Hasbun**
7. Numerical Methods for Engineers by **Steven C. Chapra, Raymond P Canale**
8. C-Programming Language, **Balaguruswamy E**, Tata McGraw Hill (1999).
9. C-Programming Language, **Xavier C**, New Age International (2000).
10. Computer Programming in C, **V RajaRaman**, PHI Learning Pvt. Ltd. (2004).

PHY-604: Practical Physics VI (B)

1. Low pass filter using Op-amp
2. High pass filter using Op-amp
3. Band pass filter using Op-amp
4. Op-amp inverting and non-inverting amplifier.
5. Op-amp-summer, integrator, differentiator.
6. Phase shift oscillator using op –amp
7. Wien-bridge Oscillator using op – amp
8. Digital Half-adder & Full-adder circuits.
9. Temperature of atmospheric air - by using Thermograph (Bimetallic type)- Plotting the graph of temperature Vs time.
10. Relative humidity using hair hygrometer
11. Estimation of relative humidity using wet and dry bulb thermometer
12. Wind speed and direction by Hand held anemometer and wind vane
13. Estimation of height from the given pressure data

Execution of computer programs using C for the following problems.

14. (a) Determination of R in LCR transient circuit using Bisection method
(b) Freely falling body in a resistive medium using Euler method / Runge – Kutta method
15. (a) Cooling of a body due to radiation – Stefan – Boltzmann Law using Euler method
(b) rms current of ac using Simpson's rule
16. (a) Problem on heat flow using Newton Forward formula
(b) Projectile motion with resistance using Euler method/Runge – Kutta method
17. (a) Work done by a variable force using Simpson's rule
(b) LCR transient circuit – analysis – using Euler method
18. Schrödinger wave equation – Harmonic potential – Wave function plot only

Note : A Minimum of EIGHT experiments must be performed

References

1. IGNOU : Practical Physics Manual
2. Saraf : Experiment in Physics
3. S.P. Singh : Advanced Practical Physics
4. Melissons : Experiments in Modern Physics
5. Misra and Misra, Physics Lab. Manual, South Asian publishers, 2000
6. Gupta and Kumar, Practical physics, Pragati prakashan, 1976
7. Ramalingom & Raghuopalan : A Lab. Course in Electronics
8. Bharagav et al : Electronics, TTI
9. Computational Physics, An Introduction by **R C Verma, Ahluwalia, Sharma**
10. A first Course in Computational Physics by **Paul L. DeVries, Javier E. Hasbun**
11. Numerical Methods for Engineers by **Steven C. Chapra, Raymond P Canale**

No.Aca-II/Civic Sense/2012-13,

Dated: 20.07.2012

NOTIFICATION

Sub: Introduction of Non Core Paper – "CIVIC SENSE" for I Semester in all UG Courses from the Academic Year 2012-13 along with the Syllabus.

- Ref:1. Resolution of Post-poned Ordinary Meeting of the Academic Council held on 05.07.2012.
2. University Circular No.PMEB/CIVIC SENSE/2012-13, dated 13.06.2012.

* * *

Pursuant to the resolution of the Academic Council held on 05.07.2012, and in continuation of Circular cited above, the Syllabus for 'CIVIC SENSE' to be taught as non-core subject for I Semester students for all the UG Courses of Bangalore University with effect from 2012-13, is enclosed herewith for kind perusal.

This paper to be taught by the Teachers already teaching Social Science Subjects.

BY ORDER


REGISTRAR

23/7/12

To

All the Deans of Arts, Science and Commerce Faculties, Bangalore University, Bangalore.

Copy to:

1. The Principals of all the affiliated colleges offering UG courses of Bangalore University.
2. The Chairpersons of Board of Studies in UG, BUB
3. The Registrar (Evaluation), Bangalore University, Bangalore
4. The Superintendent, Academic Section-I, III & IV, BUB
5. The Deputy Registrar, Examination Branch, BUB
6. The Director of Correspondence Course and Distance Education, BUB
7. The Director, Prasara, Bangalore University, Bangalore – with a request to publish the same in the next University Gazette.
8. The Librarian, Bangalore University, Bangalore – with a request to please publish in the University Website.
9. P.S to VC/Registrar/Registrar (Evaluation), BUB
10. The Co-ordinator, Statistical Cell, BUB / Office Copy

BANGALORE UNIVERSITY

SYLLABUS FOR NON CORE SUBJECT- 'CIVIC SENSE' UNDER GRADUATE COURSE IN FACULTY OF ARTS, COMMERCE AND SCIENCE (I SEMESTER BA/B.Sc/B.Com/BBM/BCA/BHM) w.e.f. June 2012.

OBJECTIVE:

- To sensitize students to the concept and practice of Civic sense.
- To make students aware that civic sense is the first step of extending one's responsibility as a member of a community.
- To reinforce in students the urgent need for good civic sense as a prerequisite for good quality of life.
- To assist students to understand how the local government contributes towards improving civic sense.
- To make students understand that they can and must play a pivotal rôle in the transformation plan of urban attitudes along with the local government for sustained change.
- To make students become facilitators of good civic sense by implementing their ideas on the ground and gaining an experiential understanding of initiating and sustaining good civic sense in the community.

UNIT I : INTRODUCTION TO CIVIC SENSE / SOCIAL ETHICS:- concept, nature and scope of civic sense, need and importance of civic sense, inter-relation between civic sense, citizenship and community – **8 hrs.**

UNIT II : ISSUES OF PROMOTING CIVIC SENSE – spitting, urinating and defecating in public, littering, shop lifting, consuming alcohol in public, smoking in public, consuming drugs, mugging, vandalizing public property, vulgar graffiti on public spaces, loud and rude behaviour, argumentativeness, lack of humility and conduct, general disregard to the law of the land, disrespect to elders, ragging, eve teasing, women subjugation, stalking, lack of traffic discipline, jay walking, honking without reason, willful noise pollution, road rage, use of cell phones while driving.

REPORTING INSTANCES OF POOR CIVIC SENSE:- Highlighting the manifestations and ramifications including the moral and the legal consequences of the victims and the accused. Preventive/Precautionary measures for the innocent victims who are soft targets – **8 hrs.**

UNIT III : PROMOTION OF CIVIC SENSE – Role of educational institutions and media; the role of family/teachers, Local Self Government and Non-Governmental organization – **16 hrs.**

UNIT IV : SUCCESS STORIES SIGNIFYING GOOD CIVIC SENSE WITHIN INDIA AND FOREIGN COUNTRIES – **8 hrs.**

UNIT V : GROUP PROJECT – Sensitizing Students to The Practice and Inculcation of Civic Sense – **16 hrs.**

BOOKS FOR REFERENCE

1. DR.PRIYADARSHINI PILLAI, CIVIC SENSE
2. PRAKASH PILLAPPA, CIVIC SENSE
3. DR.K.P.PUTTHURAYA, SABYATHE - SOUJANYA

Six Months Module Syllabus for Environmental Studies for Under Graduate Courses



UNIVERSITY GRANTS COMMISSION

BAHADURSHAH ZAFAR MARG

NEW DELHI- 110 002

2003

VISION

The importance of environmental science and environmental studies cannot be disputed. The need for sustainable development is a key to the future of mankind. Continuing problems of pollution, loss of forest, solid waste disposal, degradation of environment, issues like economic productivity and national security, Global warming, the depletion of ozone layer and loss of biodiversity have made everyone aware of environmental issues. The United Nations Conference on Environment and Development held in Rio de Janeiro in 1992 and world Summit on Sustainable Development at Johannesburg in 2002 have drawn the attention of people around the globe to the deteriorating condition of our environment. It is clear that no citizen of the earth can afford to be ignorant of environmental issues. Environmental management has captured the attention of health care managers. Managing environmental hazards has become very important.

Human beings have been interested in ecology since the beginning of civilization. Even our ancient scriptures have emphasized about practices and values of environmental conservation. It is now even more critical than ever before for mankind as a whole to have a clear understanding of environmental concerns and to follow sustainable development practices.

India is rich in biodiversity which provides various resources for people. It is also basis for biotechnology.

Members of the Expert Committee on Environmental Studies

1. Prof. Erach Bharucha
Director
Bharati Vidyapeeth
Institute of Environment Education &
Research, Pune
2. Prof. C. Manoharachary
Department of Botany
Osmania University
Hyderabad
3. Prof. S. Thayumanavan
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Centre for Environmental Studies
Anna University, Chennai
4. Prof. D.C. Goswami
Head, Deptt. of Environment Science
Gauhati University
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5. Shri R. Mehta
Director EE Division
Ministry of Environment & Forest
Prayavarun Bhawan, CGO Complex
Lodhi Road, New Delhi-110 003

UGC OFFICIALS

6. Dr. N.K. Jain
Joint Secretary
UGC, New Delhi

Only about 1.7 million living organisms have been described and named globally. Still many more remain to be identified and described. Attempts are made to conserve them in ex-situ and in-situ situations. Intellectual property rights (IPRs) have become important in a biodiversity-rich country like India to protect microbes, plants and animals that have useful genetic properties. Destruction of habitats, over-use of energy resources and environmental pollution have been found to be responsible for the loss of a large number of life-forms. It is feared that a large proportion of life on earth may get wiped out in the near future.

In spite of the deteriorating status of the environment, study of environment has so far not received adequate attention in our academic programmes. Recognizing this, the Hon'ble Supreme Court directed the UGC to introduce a basic course on environment at every level in college education. Accordingly, the matter was considered by UGC and it was decided that a six months compulsory core module course in environmental studies may be prepared and compulsorily implemented in all the Universities/Colleges of India.

The experts committee appointed by the UGC has looked into all the pertinent questions, issues and other relevant matters. This was followed by framing of the core module syllabus for environmental studies for undergraduate courses of all branches of Higher Education. We are deeply conscious that there are bound to be gaps between the ideal and real. Genuine endeavour is required to minimize the gaps by intellectual and material inputs. The success of this course will depend on the initiative and drive of the teachers and the receptive students.

CORE MODULE SYLLABUS FOR ENVIRONMENTAL STUDIES
FOR UNDER GRADUATE COURSES OF ALL BRANCHES
OF HIGHER EDUCATION

Unit 1 : The Multidisciplinary nature of environmental studies

Definition, scope and importance

(2 lectures)

Need for public awareness.

Unit 2: Natural Resources :

Renewable and non-renewable resources :

Natural resources and associated problems.

- a) Forest resources : Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
- b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams- benefits and problems.
- c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- d) Food resources: World food problems , changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies

Man-dini - N
11/2/06

e) **Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources.**
Case studies.

f) **Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.**

• **Role of an individual in conservation of natural resources.**

• **Equitable use of resources for sustainable lifestyles.**

(8 lectures)

Unit 3 : Ecosystems

- **Concept of an ecosystem.**
- **Structure and function of an ecosystem.**
- **Producers, consumers and decomposers.**
- **Energy flow in the ecosystem.**
- **Ecological succession.**
- **Food chains, food webs and ecological pyramids.**
- **Introduction, types, characteristic features, structure and function of the following ecosystem :-**
 - a. **Forest ecosystem**
 - b. **Grassland ecosystem**
 - c. **Desert ecosystem**

Nandini . N
11/2/06

- d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

Unit 4 : Biodiversity and its conservation

- Introduction – Definition : genetic, species and ecosystem diversity.
- Biogeographical classification of India
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation
- Hot-spots of biodiversity.
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

(8 lectures)

Unit 5 : Environmental Pollution

Definition

- Causes, effects and control measures of :-
 - a. Air pollution
 - b. Water pollution
 - c. Soil pollution
 - d. Marine pollution

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- e. Noise pollution.
- f. Thermal pollution
- g. Nuclear hazards
- Solid waste Management : Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- ✓ Disaster management : floods, earthquake, cyclone and landslides.

(8 lectures)

Unit 6 : Social Issues and the Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people : its problems and concerns. Case-studies.
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.

Namdev - N
11/2/06

- Water (prevention and control of pollution) Act
- Wild life protection Act
- Forest conservation Act
- Issues involved in enforcement of environmental legislation
- Public awareness

(7 Lectures)

Unit 7: Human population and the Environment

- Population growth, variation among nations
- Population explosion- Family welfare programme
- Environment and Human health
- Human rights
- Value education
- HIV/AIDS
- Women and child welfare
- Role of information technology in environment and human health
- Case studies

(6 Lectures)

Unit 8: Field Work

- Visit to a local area to document environmental assets-river/ forest /grassland /hill/ mountain.

- Visit to a local polluted site-urban/ Rural/Industrial/Agricultural
- Study of common plants ;insects; birds
- Study of simple ecosystems pond river hill slopes etc. (Field work equal to 5 lecture hours)
- Each student has to submit a field report on any one of above topics which forms the basis for evaluation of field work for - 25 marks.

Narain Singh
11/2/06

SIX MONTHS COMPULSORY CORE MODULE COURSE IN
ENVIRONMENTAL STUDIES: FOR UNDERGRADUATES

Teaching Methodologies

The Core Module Syllabus for Environmental Studies includes class room teaching and Field Work. The syllabus is divided into eight units covering 50 lectures. The first seven units will cover 45 lectures which are class room based to enhance knowledge skills and attitude to environment. Unit eight is based on field activities which will be covered in five lecture hours and would provide students first hand knowledge on various local environmental aspects. Field experience is one of the most effective learning tools for environmental concerns. This moves out of the scope of the text book mode of teaching into the realm of real learning in the field, where the teacher merely acts as a catalyst to interpret what the student observes or discovers in his/her own environment. Field studies are as essential as class work and form an irreplaceable synergistic tool in the entire learning process.

Course material provided by UGC for class room teaching and field activities be utilized.

The universities/ colleges can also draw upon expertise of outside resource persons for teaching purposes.

Environmental Core Module shall be integrated into the teaching programmes of all undergraduate courses.

Annual System: The duration of the course will be 50 lectures. The exam will be conducted along with the Annual Examination.

Nandu Singh
11/2/06

Semester System: The Environment course of 50 lectures will be conducted in the second semester and the examinations shall be conducted at the end of the second semester.

Credit System: The core course will be awarded 4 credits.

Exam Pattern: In case of awarding the marks, the question paper should carry 100 marks. The structure of the question paper being:

Part-A, Short answer pattern 25 marks

Part-B, Essay type with inbuilt choice 50 marks

Part-C, Field Work 25 marks

Nandu N
11/2/06

REFERENCES

1. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd. , Ahmedabad - 380 013, India, Email: mapin@iccnl.net (R)
3. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
4. Clark R.S., Marine Pollution, Clarendon Press Oxford (TB)
5. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
6. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
7. Down to Earth, Centre for Science and Environment(R)
8. Gleick, H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute. Oxford Univ. Press. 473p
9. Hawkins R.E, Encyclopedia of Indian Natural History, Bombay Natural History Society . Bombay (R)
10. Heywood, V.H & Watson, R.T. 1995 . Global Biodiversity Assessment. Cambridge Univ. Press 1140p.
11. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
12. Mckinney, M.L. & Schoof, R.M. 1996. Environmental Science systems & Solutions, Web enhanced edition. 639p.
13. Mhaskar A.K, Matter Hazardous, Techno-Science Publications (TB)
14. Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
15. Odum, E.P. 1971. Fundamentals of Ecology: W.B. Saunders Co. USA, 574p
16. Rao M N. & Datta, A.K. 1987. Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd. 345p.

Nandini N
11/2/06

17. Sharma B.K., 2001. Environmental Chemistry. Goel Publ. House, Meerut
18. Survey of the Environment, The Hindu (M)
19. Townsend C., Harper J, and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
22. Trivedi R.K., Handbook of Environmental Laws, Rules, Guidelines , Compliances and Standards, Vol I and II, Enviro Media (R)
23. Trivedi R.K. and P.K. Goel, Introduction to air pollution, Techno-Science Publications (TB)
24. Wagner K.D.,1998. Environmental Management. W.B. Saunders Co. Philadelphia, USA 499p

(M) Magazine

(R)Reference

(TB) Textbook

Compulsory Subject
BBM/B Com/B Sc (BT) BA
IV sem

BANGALORE UNIVERSITY

1

No.ACA.II/A3/Intr.Comp-Fund/2004-05

Jnanabharathi
Bangalore-560 056

Dt.14.9.2004.

NOTIFICATION

Sub:Introduction of 'Computer Fundamentals'
as a core paper in B.A., B.Sc., Degree
Courses.

Ref:Resolution of the Academic Council at
its meeting held on 27.04-2004.

The Academic Council of Bangalore University has decided in its meeting held on 27.4.2004 to introduce a core paper on 'Computer Fundamentals' in B.A., B.Sc Degree Courses in Fourth Semester (Paper 4.6). The syllabus were also approved by the Academic Council, which will take effect from the academic year 2004-05. The approved syllabus is notified herewith.

Srinivas

BY ORDER

REGISTRAR.

To,

- 1.The Dean of all the Faculties of Bangalore University, Bangalore.
- 2.The Principals of all the colleges affiliated to Bangalore University.

Copy to:

- 1.The Principal Secretary to Governor, Raj Bhavan, Bangalore-1.
- 2.The Principal Secretary to Government, Government of Karnataka, Education Department (University), M.S.Building, Bangalore-1.
- 3.The Registrar (Evaluation), Bangalore University, Bangalore.
- 4.The Directorate of Correspondence Course and Distance Education, Bangalore University, Bangalore.
- 5.The Director, Prasaraanga, Bangalore University, Bangalore with a request to notify the same in the University Gazette.
- 6.P.S to Vice-Chancellor/Registrar/Registrar (Evaluation), Bangalore University, Bangalore.

Fourth Semester
Paper 4.6 COMPUTER FUNDAMENTALS
(Common to B.A. and B.Sc. Courses, except for the B.Sc. students with
Computer Science as optional subject)

Unit 1: General features of a computer. Generation of computers. Personal computer, workstation, mainframe computer and super computers. Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia. (8 h)

Unit 2: Computer organization. Central processing unit. Computer memory- primary memory and secondary memory. Secondary storage devices- magnetic and optical media. Input and output units. OMR, OCR, MICR, scanner, mouse. Modem. (10 h)

Unit 3: Computer hardware and software. Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and computer security. Elements of MS.DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of a database and its applications. (12 h)

Unit 4: Word processing and electronic spread sheet. An overview of MS.WORD, MS.EXCEL and MS.POWERPOINT. Elements of BASIC programming. Simple illustrations. (10 h)

Unit 5: Network of computers. Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications. (10 h)

Total: 50 hours

List of Practical Assignments: (12 Sessions of 2 hours each)

1. System use, keyboard, mouse operations. Word pad and paint brush. Creating a folder and saving a document. – Two sessions
2. Simple MS.DOS commands – One session
3. Windows operating system – icons, menus and submenus, my computer. Two sessions.

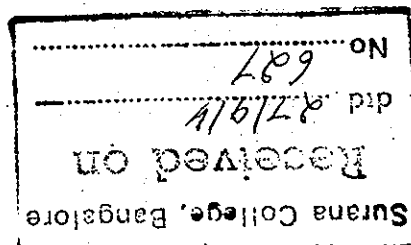


4. Desktop publishing – preparation of a document using MS.WORD. Two sessions.
5. Installation of a software, virus scanning – illustrations. One session.
6. Spreadsheet calculations using MS.EXCEL. One session.
7. BASIC programming – illustrations. – One session
8. Internet use. Surfing, browsing, search engines, E-mail. Two sessions.

List of Books for study and reference:

1. Alexis Leon and Mathews Leon (1999): Fundamentals of information technology. Leon Techworld Pub.
2. Jain, S.K.(1999): Information Technology “O” level made simple. BPB Pub.
3. Jain, V.K. (2000): “O” Level Personal Computer software. BPB Pub.
4. Rajaraman, V. (1999): Fundamentals of Computers. Prentice Hall India.
5. Hamacher, Computer Organization. McGrawhill.
6. Alexis Leon: Computers for everyone. Vikas, UBS.
7. Anil Madaan: Illustrated Computer Encyclopedia. Dreamland Pub.
8. Sinha. Computer Fundamentals. BPB Pub.

SD No theory
 24 hrs Practical
 74 x 4 = 296



B.Sc Comp Sc
TV SEM

7-

CSIVT2: Computer Networks (Special Paper)

Total Teaching Hours / Semester: 45

No of Lecture Hours / Week: 03

Unit 1: Introduction to Data Communication – Network Models, Protocols and Architecture, Standards Organizations, Line Configuration, Topology, Transmission Mode, Classification of Networks, OSI Reference Model. (08)

Unit 2: Analog and Digital Signals - Data Encoding, Parallel and Serial Transmission - DTE/DCE/such as EIA -449, EIA-530, EIA-202 and x.21 interface - Interface standards, Modems, Guided Media, Unguided Media, Transmission Impairment, Performance, Synchronous and Asynchronous transmission. (06)

Unit 3: Multiplexing - LLC, Error Detection and Correction, Flow Control, HDLC, LANs-Applications, Architecture, Ethernet, 802.3 LANs, Token Ring, FDDI, IEEE 802.6, Circuit Switching, Packet Switching, Message Switching, Connection Oriented and Connectionless Services. (08)

Unit 4: ISDN - ISDN Layers, Broadband ISDN, X.25 Layers - Packet Layer Protocol. Frame Relay – Operation. Layers, ATM – Goals, Architecture, Applications. (06)

Unit 5: Principles of Internetworking - Connection-Oriented, Connectionless.. Routing Concepts, Routing Algorithms – Distance-vector routing, Link state routing, shortest Path routing. Congestion Control, QoS, Internetworking, Network Devices. (06)

Unit 6: Transport Layer services - Elements of Transport protocols, Connection Mangement, RPC. Session Layer Services, Translation, Data Compression Techniques. (06)

Unit 7: Network Security Requirements - Public Key Encryption and Digital Signatures, Firewalls, IDS. (05)

Books for Reference

1. Forouzan, Behrouz A. *Data Communications and Networking*, 2nd Edition. TMH Publications.
2. Stallings. William. *Data & Computer Communications*. 6th Edition. Pearson Education Asia.
3. Tanenbaum. Andrew S. *Computer Networks*. 4th Edition. Pearson Education.

Fourth Semester
Paper 4.6 COMPUTER FUNDAMENTALS
(Common to B.A. and B.Sc. Courses, except for the B.Sc. students with
Computer Science as optional subject)

Unit 1: General features of a computer. Generation of computers. Personal computer, workstation, mainframe computer and super computers. Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia.
(8 h)

Unit 2: Computer organization. Central processing unit. Computer memory- primary memory and secondary memory. Secondary storage devices- magnetic and optical media. Input and output units. OMR, OCR, MICR, scanner, mouse. Modem.
(10 h)

Unit 3: Computer hardware and software. Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and computer security. Elements of MS.DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of a database and its applications.
(12 h)

Unit 4: Word processing and electronic spread sheet. An overview of MS.WORD, MS.EXCEL and MS.POWERPOINT. Elements of BASIC programming. Simple illustrations.
(10 h)

Unit 5: Network of computers. Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications.
(10 h)

Total: 50 hours

List of Practical Assignments: (12 Sessions of 2 hours each)

1. System use, keyboard, mouse operations. Word pad and paint brush. Creating a folder and saving a document. – Two sessions
2. Simple MS.DOS commands – One session
3. Windows operating system – icons, menus and submenus, my computer. Two sessions.

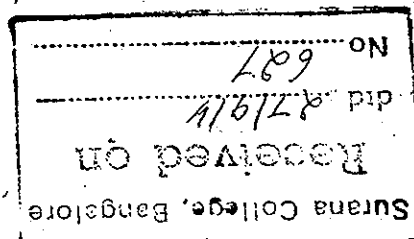


4. Desktop publishing – preparation of a document using MS.WORD. Two sessions
5. Installation of a software, virus scanning – illustrations. One session.
6. Spreadsheet calculations using MS EXCEL. One session.
7. BASIC programming – illustrations. – One session
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4. Rajaraman, V. (1999): Fundamentals of Computers. Prentice Hall India.
5. Hamacher, Computer Organization. McGrawhill.
6. Alexis Leon: Computers for everyone. Vikas, UBS.
7. Anil Madaan: Illustrated Computer Encyclopedia. Dreamland Pub.
8. Sinha. Computer Fundamentals. BPB Pub.

SD M theory
 24 hrs Practical work
 74 x 4 = 296



7 -

CSIVT2: Computer Networks (Special Paper)

Total Teaching Hours / Semester: 45

No of Lecture Hours / Week: 03

Unit 1: Introduction to Data Communication – Network Models, Protocols and Architecture, Standards Organizations, Line Configuration, Topology, Transmission Mode, Classification of Networks, OSI Reference Model. (08)

Unit 2: Analog and Digital Signals – Data Encoding, Parallel and Serial Transmission - DTE/DCE/such as EIA -449, EIA-530, EIA-202 and x.21 interface - Interface standards, Modems, Guided Media, Unguided Media, Transmission Impairment, Performance, Synchronous and Asynchronous transmission. (06)

Unit 3: Multiplexing - LLC, Error Detection and Correction, Flow Control, HDLC, LANs-Applications, Architecture, Ethernet, 802.3 LANs, Token Ring, FDDI, IEEE 802.6, Circuit Switching, Packet Switching, Message Switching, Connection Oriented and Connectionless Services. (08)

Unit 4: ISDN - ISDN Layers, Broadband ISDN, X.25 Layers - Packet Layer Protocol.. Frame Relay – Operation. Layers, ATM – Goals, Architecture, Applications. (06)

Unit 5: Principles of Internetworking - Connection-Oriented, Connectionless.. Routing Concepts, Routing Algorithms – Distance-vector routing, Link state routing, shortest Path routing. Congestion Control, QoS, Internetworking, Network Devices. (06)

Unit 6: Transport Layer services - Elements of Transport protocols, Connection Mangement, RPC. Session Layer Services, Translation, Data Compression Techniques. (06)

Unit 7: Network Security Requirements - Public Key Encryption and Digital Signatures, Firewalls, IDS. (05)

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2. Stallings, William. *Data & Computer Communications*. 6th Edition. Pearson Education Asia.
3. Tanenbaum, Andrew S. *Computer Networks*. 4th Edition. Pearson Education.

No.ACA-II/A1/Compl.Papers/2006-07

Date: 3.11.2006

NOTIFICATION

Sub: Introduction of Compulsory Core papers viz., Indian Constitution, Computer Fundamentals & Environmental Studies in the UG Courses in a staggered manner from the Academic Year 2006-07.

Ref: Resolution of the Ordinary Meeting of the Academic Council held on 25.9.2006.

Pursuant to the resolution of the Ordinary Meeting of the Academic Council held on 25.9.2006 it is hereby notified that the following Compulsory Core papers are prescribed in the respective Semesters of UG Courses in a staggered manner from the Academic Year 2006-07. The Syllabus of these Courses are annexed.

These Compulsory Core papers will not however be applicable to B.Ed., B.Lib.Sci and B.P.Ed., Courses.

Sem.	B.Com/BBM/BHM	BA/BA(Journalism)	B.Sc/B.Sc(FAD)/BCA
II	Environmental Studies	Indian Constitution	Computer fundamentals
III	Computer Fundamentals	Environmental Studies	Indian Constitution
IV	Indian Constitution	Computer Fundamentals	Environmental Studies

To

All the Deans of Faculties, Bangalore University, Bangalore.

Copy to :-

1. The Principals of all the Affiliated Colleges offering UG Courses of Bangalore University.
2. The Chairpersons of Board of Studies in UG, BUB.
3. The Registrar (Evaluation), B.U.B.
4. The Deputy Registrar, Academic Section I, The Deputy Registrar, III & IV, B.U.B.
5. The Deputy Registrars, Examination Branch, Bangalore University, Bangalore.
6. The Director of Correspondence Course and Distance Education, Bangalore University, Bangalore.
7. The Director, Prasaranga, Bangalore University, Bangalore – with a request to publish the same in the next University Gazette.
8. The Librarian, Bangalore University, Bangalore – with a request to please publish in the University Website.
9. P.S to VC / Registrar / Registrar (Evaluation), Bangalore University, Bangalore.
10. The Co-Ordinator, Statistical Cell, Bangalore University, Bangalore.
11. Office Copy.

REGISTRAR 5/11/06

24/11/05
675

BANGALORE UNIVERSITY

INDIAN CONSTITUTION

Syllabus of Compulsory Paper for all Undergraduate Degree Courses in the

IIIrd Semester

(As Revised by the Board of Studies in Political Science in June 2005 to Suit the Requirements of the Semester Scheme)

Chapter 1: Indian Constitution: Its Philosophy and Framing

- The Constituent Assembly
- Preamble, Fundamental Rights and Fundamental Duties
- Directives Principles of State Policy
- Amendment and Review of the Constitution

Chapter 2: The Union & State Legislature

- Union Parliament
- State Legislature
- Law-Making Process
- Committee System

Chapter 3: The Union & State Executive


- The President of India
- The Prime Minister and Council of Ministers
- The State Governor, Chief Minister and Council of Ministers
- Coalition Government

Chapter 4: The Judiciary

- The Supreme Court of India
- Judicial Review
- Writs
- Judicial Activism and Public Interest Litigation

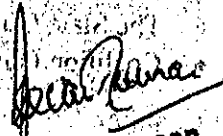
Chapter 5: Issues

- Indian Federalism
- Human Rights and Environmental Protection
- Reservation and Social Justice
- Secularism


Chairperson
Department of Political Science
Bangalore University
Bangalore - 560 058

REFERENCES

- D.D. Basu** : Introduction to the Constitution of India
- Granville Austin** : India's Constitution – Cornerstone of a Nation
- Granville Austin** : Working of a Democratic Constitution - The Indian Experience
- J.C. Johari** : Indian Government and Politics, Vol. 1 & 2.
- J.R. Siwach** : Dynamics of Indian Government & Politics
- D.C. Gupta** : Indian Government & Politics
- M.V. Pylee** : India's Constitution
- K.K. Ghai** : The Indian Constitution
- H.M. Rajshekar** : Bharata Sarkara mattu Rajkiya
- M.P. Bhuvaneshwara Prasad** : Bharata Samvidhanada Parichaya
- S.K. Kabburi** : Bharata Samvidhana
- K.J. Suresh** : Bharata Samvidhana
- D.T. Deve Gowda** : Bharata Sarkara mattu Rajkiya
- Lohitashwa** : Bharata Samvidhana


Chairperson
Department of Political Science
Bangalore University
Bangalore - 560 056

Fourth Semester
Paper 4.6 COMPUTER FUNDAMENTALS
(Common to B.A. and B.Sc. Courses, except for the B.Sc. students with
Computer Science as optional subject)

Unit 1: General features of a computer. Generation of computers. Personal computer, workstation, mainframe computer and super computers. Computer applications – data processing, information processing, commercial, office automation, industry and engineering, healthcare, education, graphics and multimedia. (8 h)

Unit 2: Computer organization. Central processing unit. Computer memory- primary memory and secondary memory. Secondary storage devices- magnetic and optical media. Input and output units. OMR, OCR, MICR, scanner, mouse. Modem. (10 h)

Unit 3: Computer hardware and software. Machine language and high level language. Application software. Computer program. Operating system. Computer virus, antivirus and computer security. Elements of MS.DOS and Windows OS. Computer arithmetic. Binary, octal and hexadecimal number systems. Algorithm and flowcharts. Illustrations. Elements of a database and its applications. (12 h)

Unit 4: Word processing and electronic spread sheet. An overview of MS.WORD, MS.EXCEL and MS.POWERPOINT. Elements of BASIC programming. Simple illustrations. (10 h)

Unit 5: Network of computers. Types of networks. LAN, Intranet and Internet. Internet applications. World wide web. E-mail, browsing and searching. Search engines. Multimedia applications. (10 h)

Total: 50 hours

List of Practical Assignments: (12 Sessions of 2 hours each)

1. System use, keyboard, mouse operations. Word pad and paint brush. Creating a folder and saving a document. – Two sessions
2. Simple MS.DOS commands – One session
3. Windows operating system – icons, menus and submenus, my computer. Two sessions.


mbb

4. Desktop publishing – preparation of a document using MS.WORD. Two sessions.
5. Installation of a software, virus scanning – illustrations. One session.
6. Spreadsheet calculations using MS.EXCEL. One session.
7. BASIC programming – illustrations. – One session
8. Internet use. Surfing, browsing, search engines, E-mail. Two sessions.

List of Books for study and reference:

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3. Jain, V.K. (2000): "O" Level Personal Computer software. BPB Pub.
4. Rajaraman, V. (1999): Fundamentals of Computers. Prentice Hall India.
5. Hamacher, Computer Organization. McGrawhill.
6. Alexis Leon: Computers for everyone. Vikas, UBS.
7. Anil Madaan: Illustrated Computer Encyclopedia. Dreamland Pub.
8. Sinha. Computer Fundamentals. BPB Pub.

Non Core
Subject


BANGALORE UNIVERSITY
Jnanabharathi, Bangalore- 560 056.
Ph:(080) 22961036/22961038 Fax: (080) 23211020

No.Aca-II/A1/Compl.Papers/ 2007-08

Dated. 15.5.2007

NOTIFICATION

Sub: Introduction of Compulsory Core Papers viz., Indian Constitution, Computer Fundamentals & Environmental Studies in the UG Courses in a staggered manner from the Academic Year 2006-07.

Ref: 1) Resolution of the Ordinary Meeting of the Academic council held on 25.9.2006.
2) Aca-II/A1/Compl.Papers/2006-07 dated 3.11.2006 & 9.4.2007.

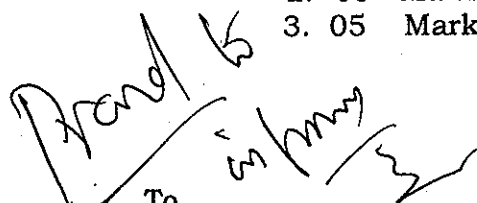
In Continuation to the Notification of even number dated 3.11.2006 and 9.4.2007 the following marks are prescribed in respect of Environmental Studies Core Paper which are prescribed in the staggered manner for the specified UG Courses mentioned therein.

ENVIRONMENTAL STUDIES

1. 90 Marks for Theory
2. 05 Marks for Test / Assignment
3. 05 Marks for Field Work and report.

BY ORDER


REGISTRAR
15/5/07


To
All the Deans of Faculties, Bangalore University, Bangalore.

Copy to:

1. The Principals of all the Affiliated Colleges offering UG Courses of Bangalore University.
2. The Chairpersons of board of Studies in UG, Bangalore University, Bangalore.
3. The Registrar (Evaluation), Bangalore University, Bangalore.
4. The Deputy Registrar, Academic Section-1, The Deputy Registrar, III & IV, Bangalore University, Bangalore,
5. The Deputy Registrars, Examination Branch, Bangalore University, Bangalore.
6. The Assistant Registrars, examination Branch, Bangalore University, Bangalore.
7. The Superintendents, Academic-I & Examination Branch, Bangalore University, Bangalore.
8. The Director of Correspondence Course and Distance Education, Bangalore University, Bangalore,
9. The Director, Prasaranga, Bangalore University, Bangalore - with a request to publish the same in the next University Gazette.
10. The Librarian, Bangalore University, Bangalore - with a request to publish in the Bangalore University Website.
11. P.S to VC/ Registrar / Registrar (Evaluation), Bangalore University, Bangalore.
12. The Co-Ordinator, Statistical Cell, Bangalore University, Bangalore.
13. Office Copy.

BANGALORE UNIVERSITY

Regulations of Master of Computer applications (MCA) Course

- 1 **TITLE OF THE COURSE:** The course shall be called MCA – Master of Computer Applications.
- 2 **DURATION OF THE COURSE:** The course of study shall be three years.
- 3 **ELIGIBILITY FOR ADMISSION:** A candidate with any degree of a minimum of 3 years duration (10+2+3) of Bangalore university or of any other University equivalent there in to with a minimum of 50% of marks in the aggregate of all subjects including languages, if any, provided further , that the candidate has studied mathematics / Computer science /Business mathematics / Statistics / Computer applications / Electronics as a subject at PUC level or equivalent HSC (XII Standard) or at Degree level is eligible for admission to MCA Course. Relaxation to SC/ST, Group I be extended as per University norms.
- 4 **ATTENDANCE(for Regular course):** In each Semester a candidate should be considered to have successfully undergone the prescribed Course of study if the candidate has attended at least 75% of the classes in each subject (Theory , Lab & Practical).
- 5 **SCHEME OF EXAMINATION(regular):**
 - a The Internal Assessment marks should be decided for each of the theory subjects by conducting 2 tests , each of 60 minutes duration, spread over the span of a Semester . A seminar should also be given by the student in the third year and the same to be assessed and evaluated for internal assessment along with the two tests.
 - b The Internal Assessment marks in Practical course is based on the performance in the Laboratory. The Internal Assessment marks for Project work of a candidate is based on the dissertation Seminar.
- 6 **ELIGIBILITY TO GO TO THE HIGHER SEMESTER:**
 - a A Candidate is allowed to carry over all the previous unleared (failed) theory papers and Practicals to subsequent semesters from the first to sixth semester.
 - b The maximum period for completion of the course shall be six years from the date of admission.

- 7 **MINIMUM FOR PASS AND DECLARATION OF RESULTS**
- a For a pass in a semester, a candidate shall secure a minimum of 40% of the marks prescribed for a subject in the University Examination (Theory, Practical, Project work) and 50% of the marks in the aggregate inclusive of the Internal Assessment marks obtained in all subjects put together.
 - b The candidates who do not satisfy 7(a) shall be deemed to have failed and have to take exams in the subjects in which he has secured less than 40% at the University examination.
 - c Provision is made for rejection of results of all the subjects of a Semester only once, if the candidate decides to reappear for all the subjects of that semester. Such rejection should be made within 30 days of announcement of result, by making a written application, through the Head of the Institution. If such rejection is in respect of the results of all the subjects of one semester and earn fresh Internal marks as well.
 - d The results of any semester will be declared as pass or fail as the case may be in accordance with regulation 7(a).
 - e To be eligible for the award of the MCA degree, a candidate shall have completed the scheme of training and passed in all subjects prescribed for the Course
 - f Further to regulation 7(a), the classification followed by the University for all PG courses shall be made applicable for the declaration of results of each Semester.

8 **CLASSIFICATION OF RESULT FOR THE MCA COURSE AND DECLARATION OF RANKS:**

Further to regulations 7(a) and 7(f), the names of all successful candidates securing First Class with Distinction and First Class in the First attempt shall be arranged in the order of Merit and only first FIVE Ranks shall be declared.

- 9 A candidate shall complete examinations of all Semesters of MCA Course within - SIX years from the date of admission

SCHEME OF STUDY AND EXAMINATION FOR MASTER of COMPUTER APPLICATIONS (MCA)

I SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
1 MCA 1	Discrete Mathematics	4		20	80	100
1 MCA 2	Financial Accounting	4		20	80	100
1 MCA 3	Concepts of Computing & Problem Solving	4		20	80	100
1 MCA 4	Computer Organization	4		20	80	100
1 MCA 5	Assembly Language Programming 8086	4		20	80	100
1 MCA 6	Problem Solving Lab	---	6	20	80	100
1 MCA 7	Assembly Language Programming Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

II SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
2 MCA 1	Statistical Analysis	4		20	80	100
2 MCA 2	Data Structures	4		20	80	100
2 MCA 3	Operating System & UNIX	4		20	80	100
2 MCA 4	Database Management	4		20	80	100
2 MCA 5	Advanced programming (C++, JAVA)	4		20	80	100
2 MCA 6	Data Structures Lab	---	6	20	80	100
2 MCA 7	C++, JAVA Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

III SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
3 MCA 1	Fundamentals of Algorithms	4		20	80	100
3 MCA 2	System Software	4		20	80	100
3E3A	Elective I	4		20	80	100
3 MCA 4	Object Oriented Analysis and Design	4		20	80	100
3 MCA 5	Theory of Computation	4		20	80	100
3 MCA 6	Soft Skills Practices	---	6	20	80	100
3 MCA 7	Database Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

IV SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
4 MCA 1	Software Engineering	4		20	80	100
4 MCA 2	Computer Networks	4		20	80	100
4 MCA 3	Computer Graphics	4		20	80	100
4 E4A	Elective II	4		20	80	100
4 E5A	Elective III	4		20	80	100
4 MCA 6	Algorithm Lab	---	6	20	80	100
4 MCA 7	Graphics Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

V SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
5 MCA 1	Human Resource Management	4		20	80	100
5 MCA 2	Information & Network Security	4		20	80	100
5 MCA 3	Internet Technology	4		20	80	100
5 E5A	Elective IV	4		20	80	100
5 E5B	Elective V	4		20	80	100
5 MCA 6	Internet Programming & UNIX Lab	---	6	20	80	100
5 MCA 7	Software Engineering Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

VI SEMESTER

Individual Project Work and Viva Voce

Duration of the project is six months. During the project work the students are to interact with the Internal guides / External guides.

The evaluation pattern is:

IA	-	150
Project demo + Viva	-	350
Total marks	-	500

Scheme for the examination:

Part A: 4 questions (out of 6) with 8 marks each
Part B: 4 questions (out of 6) with 12 marks each

1MCA1: Concepts of Computing and Problem Solving

UNIT I:

Algorithms and Flowcharts

8 Hours

The meaning of algorithms, Flowcharts and their need, Writing algorithms and drawing flowcharts for simple exercises like finding largest of three numbers, roots of given quadratic equation, the biggest and smallest of given set of numbers and such other problems

Constants, Variables and Data Types

Character set, C tokens, keywords & identifiers, structure of C program, executing a C program. Constants, variables, data types, declaration of variables, declaration of storage classes, assigning values to variables defining symbolic constants, declaring a variable as constant, declaring a variable as volatile, overflow and underflow of data.

UNIT II:

Operators and Expressions

14 Hours

Arithmetic operators, relational operators, logical operators, assignment operator, increment and decrement operator, conditional operator, bitwise operators, comma operator, special operators, arithmetic expressions, evaluation of expressions, precedence of arithmetic operators, type conversions in expressions, operator precedence and associativity, mathematical functions

Managing Input and Output Operations

The *scanf()* & *printf()* functions for input and output operations, reading a character, writing a character, (the *getchar()* & *putchar()* functions) , the address operator(&), formatted input and output using format specifiers, Writing simple complete C programs.

Control Statements

Decision making with *if* statement, simple if statement, the *if..else* statement, nesting of *if..else* statements, the *else..if* ladder, the *switch* statement, the *?:* operator, the *goto* statement, the *break* statement, programming examples

Loop Control Structures

The while statement, the do..while statement, the for statement, nested loops, jumps in loops, the continue statement, programming examples

UNIT III:

Arrays

8 Hours

The meaning of an array, one dimensional and two dimensional arrays, declaration and initialization of arrays, reading , writing and manipulation of above types of arrays, multidimensional arrays, dynamic arrays, programming examples.

Character Arrays and Strings

Declaring and initialing string variables, reading string from terminal, writing string to screen, arithmetic operations on characters, putting strings together, comparison of two strings, string handling functions, table of strings, other features of strings, programming examples.

UNIT IV:

User Defined Functions

14 Hours

Need for user defined functions, a multi function program, elements of User defined functions, defining functions, return values and their types, function calls, function declaration, category of functions, no arguments and no return values, arguments but no return values, arguments with return values, no

arguments with return value, functions that return multiple values, nesting of functions, recursion, passing arrays to functions, passing string to functions, programming examples.

Structures and Unions

Defining a structure, declaring structure variables, accessing structure members, structure initialization, copying and comparing structure variables, operations on individual members, array of structures, structures within structures, structures and functions, Unions, size of structures, bit fields, programming examples

Pointers

Understanding pointers, accessing the address space of a variable, declaring and initialization pointer variables, accessing a variable through its pointer, chain of pointers, pointer expressions, pointers and arrays, pointer and character strings, array of pointers, pointer as function arguments, functions returning pointers, pointers to functions, pointers and structures, programming examples

UNIT V:

File Management in C

08 Hours

Defining and opening a file, closing a file, input/output operations on files, error handling during I/O operations, random access files, command line arguments, programming examples.

Dynamic Memory Allocation

Dynamic memory allocation, allocating a block of memory: *malloc*, allocating multiple blocks of memory: *calloc*, releasing the used space: *Free*, altering the size of a block: *realloc*, programming examples

The Preprocessor

Introduction, macro substitution, files inclusion, compiler control directives, ANSI additions, programming exercises.

Reference Books:

1. Balagurusamy: Programming in ANSI C, 4th Edition, Tata McGraw Hill, 2008.
2. V Rajaraman: Computer Programming in C, PHI, 2000.
3. Behrouz A Forouzan and Richard F Gilberg: Structured Programming Approach C, 2nd Edition, Thomson, 2005.
4. M G Venkateshmurthy: Programming Techniques through C, Pearson Education, 2005.
5. Ivor Horton: Beginning C from Novice to Professional, 4th Edition, Springer, 2005.
6. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson Education, 2002.

1MCA2: Discrete Mathematics

UNIT I: Set Theory

6 Hours

Sets and Subsets, Set Operations and the Laws of Set Theory, Counting and Venn Diagrams, A First Word on Probability, Countable and Uncountable Sets

UNIT II: Fundamentals of Logic

13 Hours

Basic Connectives and Truth Tables, Logic Equivalence – The Laws of Logic, Logical Implication – Rules of Inference; The Use of Quantifiers, Quantifiers, Definitions and the Proofs of Theorems

UNIT III: Properties of the Integers

7 Hours

Mathematical Induction, The Well Ordering Principle – Mathematical Induction, Recursive Definitions

UNIT IV: Relations and Functions

14 Hours

Cartesian Products and Relations, Functions – Plain and One-to-One, Onto Functions – Stirling Numbers of the Second Kind, Special Functions, The Pigeon-hole Principle, Function Composition and Inverse Functions; Properties of Relations, Computer Recognition – Zero-One Matrices and Directed Graphs, Partial Orders – Hasse Diagrams, Equivalence Relations and Partitions

UNIT V: Groups, Coding Theory and Rings

12 Hours

Definitions, Examples, and Elementary Properties, Homomorphisms, Isomorphisms, and Cyclic Groups, Cosets, and Lagrange's Theorem, Elements of Coding Theory, The Hamming Metric, The Parity Check, and Generator Matrices

Group Codes, Rings and Modular Arithmetic

Decoding with Coset Leaders, Hamming Matrices

The Ring Structure – Definition and Examples, Ring Properties and Substructures, The Integers Modulo n

Reference Books:

1. Ralph P. Grimaldi: Discrete and Combinatorial Mathematics, 5th Edition, Pearson Education, 2004.
2. Kenneth H. Rosen:, Discrete Mathematics and its Applications, 6th Edition, McGraw Hill, 2007.
3. Jayant Ganguly: A Treatise on Discrete Mathematical Structures, Sanguine-Pearson, 2010.
4. D.S. Malik and M.K. Sen: Discrete Mathematical Structures: Theory and Applications, Thomson, 2004.
5. Thomas Koshy: Discrete Mathematics with Applications, Elsevier, 2005, Reprint 2008.

1MCA3: Computer Organization.

UNIT I

Number Systems and Logic Gates

10 Hours

Counting in Decimal and Binary, Place Value, Binary to Decimal Conversion, Decimal to Binary Conversion, Hexadecimal Numbers, Octal Numbers, Bits, Bytes, Nibbles, and Word Size, The AND Gate, The OR gate, The inverter and Buffer, The NAND gate, the NOR Gate, The exclusive OR gate, The Exclusive NOR Gates, The NAND Gate as an universal Gate, Gates with More than two inputs, Using Inverters to convert gates.

UNIT II

Combining Logic Gates and Arithmetic Circuits

10 Hours

Constructing Circuits from Boolean Expression, Drawing a circuit from a Maxterm Boolean Expression, Truth Tables and Boolean Expressions, Sample Problem Simplifying Boolean Expression, Karnaugh Maps, Karnaugh Maps with three variables, Karnaugh Maps with four variables, more Karnaugh Maps, using Demorgan's Theorem, Binary Addition, Half Adders, Full Adders, , Binary Subtraction, Parallel Subtractor and adders, Binary Multiplication, Binary Multipliers, Addition and Subtraction, r complement, $(r-1)$ complement.

UNIT III

Sequential circuit design

10 Hours

Latches , SR Flip Flops, concept of edge triggering, D- flip flop ,JK- flip flop, Master slave flip flop, T- flipflop, Registers, shift Registers, asynchronous and synchronous counters, Mod 10 – counter.

UNIT III

Basic Structure of Computer & Machine Instructions

12 Hours

Computer Types, Functional Units, Basic Operational Concepts, Bus structures, Performance, Memory Location and Addresses, Memory Operations, Instructions & Instruction cycle, Addressing Modes, Assembly Language, Basic Input/Output Operations

UNIT IV: Input/Output Organization & Memory Systems

10 Hours

Accessing I/O Devices, Interrupts, Direct Memory Accesses, System bus, Interface Circuits, hard disk, floppy disk, CD-ROM. Some Basics concepts, Semiconductors RAM Memories, Read-Only Memories, Cache Memories, Virtual Memories

Reference Books:

1. Tokheim: Digital Electronics Principles and Applications, McGraw Hill, 6th Edition, 2004.
2. Carl Hamacher, Z Varnesic and S Zaky: Computer Organization, 5th Edition, McGraw Hill, 2002.
3. M Morris Mano: Digital Logic and Computer Design, 10th Edition, Pearson, 2008.
4. Morris Mano, and Charles R Kime: Logic and Computer Design Fundamentals, 2nd Edition, Pearson Education, 2001.

1MCA4: Assembly Language Programming 8086.

UNIT I:

15hours

Introduction to Microprocessor: Introduction, Applications, Basic block diagram, speed, word size, memory capacity, classification of Microprocessors (mention of different microprocessors)

Microprocessor 8085: Features, Architecture–Block diagram, Internal registers, Register pairs, Flags, Stack pointer, Program counter, Pin description of 8085, Types of Buses, Multiplexed Address and Data bus, Generation of Control signals.

Interfacing I/O devices: Basic Interfacing Concepts, Memory-Mapped I/O, I/O mapped I/O

8085 Instructions: Operation code, Operand & Mnemonics. Instruction set of 8085, Instruction classification, Addressing modes, Instruction format. Data transfer Instructions, Arithmetic instructions, Increment & Decrement instructions, Logical instructions, Branch instructions and Machine control instructions.

Stack operations and Timing diagrams: Stack operations, Subroutine calls and return operations. Timing diagrams–Instruction cycle, Machine cycle, T- states, Delay loops Time delay–Numerical examples. Simple Programming examples.

Unit II:

10 hours

8086 Architecture and programming: 8086 Architecture and programming model, registers, flags, memory segmentation, pin description, odd & even bank of memory, interfacing of memory RAM and EPROM.

Addressing modes: Immediate addressing, register addressing, memory addressing, indexed addressing with displacement, I/O port addressing.

Unit III

15 hours

8086 Instructions: Instruction template for 8086 instructions, code generation using template.

Data Transfer Instruction: Move data to register/memory from register/memory/immediate data, data transfer between a segment register and register/memory, PUSH and POP, exchange, data transfer with I/O ports.

Data Conversion instructions: XLAT, LEA, LDS, LES, LAHF and SAHF instructions.

Arithmetic Instructions: Add, subtract, negate, compare, CBW, CWD, multiply and divide instructions.

Logical Instructions: AND, OR, EX-OR, Test, NOT, ROTATE and shift instructions.

Process Control Instructions: Instructions to set/reset flags, halt, wait, lock, prefix and escape to co-processor instructions.

String Instructions: CMPS, MOVS, LODS, STOS, and SCAS instructions.

Branch Instructions: JMP, conditional jump, LOOP, LOOPE, LOOPNE, JCXZ, CALL, RET.

Unit IV

8 hours

Interrupts of 8086: Hardware interrupt, software interrupt and exception, priority of interrupts

Assembly language programming: Assembly language programming examples, subroutines and macros, examples.

Hardware features of 8086: Bus buffering, latching, timing diagrams, wait state, MIN/MAX modes of operation.

UNIT V

4 hours

Advanced Microprocessor Features: Segmentation, Paging, Real and Virtual Mode Execution, Protection Mechanism, Task Management, Concluding comment.

Reference books:

1. Ramesh S. Gaonkar, "Microprocessor Architecture, programming, and Applications", 2nd Edition, New age International.
2. Microprocessors and Interfacing: Douglas V.Hall, Second Edition, TMH.
3. Advanced Microprocessors and IBM -PC Assembly Language Programming: Dr.K.Udayakumar, B.S.Umashankar, TMH
4. Advanced Microprocessors and Peripherals, Architecture, Programming and Interfacing : Ray Bhurchandi, Tata McGraw Hill
5. 8088/8086 Processors Programming, Interfacing, Software, Hardware and applications: Walter A.Triebel and Avatar Singh, PHI.
6. Daniel Tabak, "Advanced Microprocessors", 2nd Edition, McGraw-Hill.

1MCA5: ACCOUNTING AND FINANCIAL MANGEMENT

UNIT I

15 Hrs

Accounting: Principles, concepts and conventions, double entry system of accounting, Introduction to basic books of accounts of sole proprietary concern, closing of books of accounts and preparation of trial balance.

Final Accounts: Trading, Profit and Loss accounts and Balance Sheet of sole proprietary concern (Without adjustments).

UNIT II

15 Hrs

Financial Management: Meaning, scope and role, A brief study of functional areas of financial management. Introduction to Various FM Tools: Ratio Analysis, Fund flow statement & Cash flow statement. Introduction to Cost Accounting: Nature, Importance & Basic Principles. Brief Introduction to methods of Costing & Elements of Cost, Unit Costing.

UNIT III

5 Hrs

What is Tally? Using Tally Software: Introduction and Installation, General, Number symbols, accts/inv info menu, voucher entry, invoice/orders entry and printing, security issue.

UNIT IV

10 Hrs

Working in Tally: Ledger Accounts, writing voucher, voucher entry, different types of voucher, correcting sundry debtors and sundry creditor's accounts, Trial balance, Accounts books, Cash book, Bank books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, journal Register, Statement of Accounts & Balance sheet.

UNIT V

7 Hrs

Output reports, basic features of displaying reports, printing reports, other printing options, display account books and statements, viewing cash/bank books, configure balance sheet, columnar balance sheet, show fortnightly balance sheet, integrate accounts with inventory, display profit and loss account.

Reference Books :

1. Ramachandran, "Financial Accounting for Managers", Tata McGraw Hill - 2005
2. I.M. Pandey, : Financial Management, Vikas Publications, 2003
3. P.H. Bassett, "Computerised Accounting", BPB. 2003
4. Neeraj Sharma "Computerized Accounting & Business Systems", Kalyani Publishers. 2004
5. Jain and Narang, "Principles of Accounting" .-2003
6. P.V. Kulkarni, "Financial Management", Himalaya Publishing House., 2003
7. Sharma, Gupta & Bhalla, "Management Accounting". 2004
8. Jain and Narang, "Cost Accounting" ., 2004
9. Katyal, "Cost Accounting" ., 2003
10. Charlotte Eudy McConn, "Business Computer Systems: Design, Programming & Maintenance", (PHI), 2004.
11. Kellock. J : Elements of Accounting, Heinemann., 2003
12. Rockely.L.E : Finance for the Non-accountant, 2nd Ed., Basic Books., 2003
13. Levy and sarnat : Principles of Financial Management, Prentice –Hall International. 2004

1MCA6: Concepts of Computing and Problem Solving Lab

SECTION A

1. Write a program to print whether the number entered is even or odd use conditional operators.
2. Write a program to convert hexadecimal to decimal numbers
3. Write a program to display list of C program files and directories.
4. Write a program to ensure that the difference between any two digit number and its reverse is always a multiple of nine.
5. Write a program to display number of days in calendar format of an entered month of current year.
6. Write a program to display the numbers in increasing and decreasing order using infinite loop.
7. Write a program to accept a number and find the sum of its individual digits repeatedly till the result is a single digit.
8. Write a program to enter integer number and find the largest and smallest digit of the number.
9. Write a program to read three digits +ve integer number 'n' and generate possible permutations of number using their digits.
10. Accept a text upto 50 words and perform following actions
 - a) Count total vowels, constants, spaces, sentences and words with spaces.
 - b) Program should erase more than one space between two successive words.
11. Write a program to enter names of cities and display all the entered names alphabetically.
12. Write a program to enter some text and display the text in reverse order(Eg. I am happy as Happy am I).

SECTION B

13. Write a program to calculate the result of the following with recursive calls of function.
$$X = 1! + 2! + 3! + \dots + n!$$
14. Write a program to use macros as an array and pointer.
15. Write a program to display the attributes of a file using dos interrupt.
16. Write a program to delete a file using dos interrupt.
17. Create user defined data type equivalent to int. Declare three variables of its type. Perform arithmetic operations using these variables.
18. Write a program to reboot the system. Use following data with int 86() function.
 - a) Interrupt 0x19.
 - b) Input Void(nothing)
19. Write a program to read a C program file and count the following in the complete program.
 - a) Total number of statements
 - b) Total number of included files
 - c) Total number of brackets.
20. Write a program to display C Program files in current directory. The user should select on of the files. Convert the file contents in Capital and Display the same on the screen.
21. Write a program to delete the given file from the disk.
22. Write a program to read the contents of three files and find the largest file.
23. Write a program to interchange the contents of two files.
24. Write a program to change mouse cursor.

1MCA 7: Assembly Language Programming Lab

(All programs to be written using 8086 assembly language)

1. Addition, subtraction, multiplication and division of 8-bit, 16-bit binary and decimal numbers.
2. Addition and subtraction of two 32-bit binary and decimal numbers.
3. Average of N- 8-bit/16-bit binary and decimal numbers.
4. To generate the Fibonacci series up to the given limit (both binary and decimal)
5. To find Minimum and maximum out of N numbers
6. To sort given N numbers in ascending/descending order
7. To Find the GCD of 2 integer numbers (both binary and decimal)
8. To calculate factorial of a given number using recursion technique.
9. To generate and print prime numbers up to a limit N (both binary and decimal).
10. To generate and print perfect dividing numbers up to a limit N (both binary and decimal).
11. a) Conversion of array of Binary code to Gray code.
b) Conversion of array of Gray code to Binary code
12. a) To find the Sum and difference of two matrices of order $M \times N$ and $P \times Q$ (both binary and decimal)
b) To find the transpose of given $M \times N$ matrix
13. Search for an element using binary search in an array of an 8-bit signed numbers.
14. Reverse of an array of numbers,
15. Reverse of an byte and word

2MCA1: Data Structures

Unit I: Introduction: Algorithm, Characteristics of algorithm, Algorithm analysis, Pseudo code, The Abstract Data Type, A Model for an Abstract Data Type, Time and Space Complexity, worst case, best case and average case complexity, The Big O notation. Definition of data structure and Classification of data structures. **(8 Hours)**

Unit II: Introduction to Linear List, Creation, Traversing, Insertion, deletion, searching an element in Singly Linked List, creation; Creation, Traversing, Insertion, deletion, searching an element doubly Linked List; Creation, Traversing, Insertion, deletion, searching an element Circular Linked List; Introduction to Header Linked List, Polynomial addition using linked list. **(10 Hours)**

Unit III: Basic Stack Operations, Table and Linked implementation of stack, Stack Applications - Procedure call, Recursion, Conversion of Infix expression into Postfix expression, and Evaluation of Postfix expression; Queue Operations, Linear Queue and Circular Queues, Table and Linked Implementation of Queues, Queue Applications - process scheduling algorithms. **(10 Hours)**

Unit IV: Graph terminology, Representation of Graphs in memory – adjacency matrix, and path matrix representation, Warshall's algorithm, Linked representation of Graphs, Binary Tree, Binary Trees creation, insertion and delete operation on binary tree, Binary Tree Traversal algorithms, Expression Trees, Binary Search Trees, creation, insertion, deletion, searching and traversing in Binary Search Tree, Multiway Trees: B-Tree – Creation, Insertion and deletion in 2-3-4 Tree, B+ Tree. **(10 Hours)**

Unit V: Linear Searching, Binary Search Algorithms, Hashing, Hashed List Searches, and Collision Resolution, General Sort concepts: Internal and external Sorting, Bubble Sort, Insertion Sort, Selection Sort, Exchange Sort and heap sort algorithms. **(10 Hours)**

References:

1. Robert L. Kruse, Bruce P. Leung, Clovis L.Tondo, "*Data Structures and Program Design in C*" (2nd Edition). Prentice Hall India, 2001.
2. Mark Allen Weiss, "*Data Structures and Algorithm Analysis in C*" (2nd Edition). Addison-Wesley, 1996.
3. Richard F.Gilberg, Behrouz A. Forouzan, "*Data Structures: A Pseudo code Approach with C*". Thomson Asia Pvt. Ltd, 2002

2MCA2: Statistical Techniques

UNIT 1: 12 hours

Sample spaces - events - Axiomatic approach to probability - conditional probability - Independent events - Baye's formula - Random Variables - Continuous and Discrete random variables - distribution function of a random variables - Characteristic of distributions - Expectation, variance - coefficient of variation, moment generation function - Chebyshev's inequality

UNIT 2: 10 hours

Bivariate distribution - conditional and marginal distributions - Discrete distributions - discrete uniform, Binomial poisson and geometric Distributions - Continuous distributions - Uniform, Normal, Exponential and Gamma distributions.

UNIT 3: 8 hours

Correlation coefficient - Rank correlation coefficient of determination - Linear Regression - Method of Least squares - Fitting of the curve of the form $ax + b$, $ax^2 + bx + c$, ab^x and ax^b - multiple and partial correlation (3 - variables only).

UNIT 4: 15 hours

Concept of sampling – Methods of sampling - simple random sampling - Systematic sampling and stratified random sampling (descriptions only) - concepts of sampling distributions and standard error - point estimation (concepts only) - Interval Estimation of mean and proportion. Tests of Hypotheses - Critical Region - two types of Errors - Level of significance - power of the test - Large sample tests for mean and proportion - Exact tests based on Normal, t, F and Chi-square distributions.

UNIT 5 : 7 hours

Basic principles of experimentation - Analysis of variance - one way and two way classifications - computing randomized design - Randomized Block design - Time series Analysis - Measurement of Trend and Seasonal variations.

Reference Books:

1. Mood, A.M., Graybill, F. and Boes, 1974, Introduction to Mathematical Statistics, McGraw-Hill.
2. Trivedi, K.S, 1994, Probability and Statistics with Reliability, Queuing and Computer Science Applications. Prentice Hall India, New Delhi.
3. Arnold O. Allen, 1978, Probability, Statistics and Queuing Theory with Computer Science Application.
4. Bajpai, A.C. Calus, I.M. Fairley, J.A., 1979, Statistical Methods for Engineers and Scientists. John Wiley & Sons.
5. Doughlas, C.,Montgomery, Lynwood,A. & Johnson, 1976, Forecasting and Time Series Analysis, Tata McGraw-Hill, New Delhi.
6. Baisnab, A.P. and Manoranjan Jas, 1993, Elements of Probability and Statistics,

- Tata McGraw-Hill, New Delhi.
7. Kossack, C.F. and Henschke, C.I., Introduction to Statistics and Computer Programming, Tata McGraw-Hill, New Delhi.

2MCA3: OPERATING SYSTEMS

UNIT I:

Introduction to Operating Systems, Process Management **13 Hours**

What operating systems do; Computer System organization; Computer System architecture; Operating System structure; Operating System operations; Process management; Memory management; Storage management; Protection and security; Distributed system; Special-purpose systems; Computing environments. Operating System Services; User - Operating System interface; System calls; Types of system calls; System programs; Operating System design and implementation; Operating System structure; Virtual machines; Operating System generation; System boot.

Process concept; Process scheduling; Operations on processes; Inter-process communication. Multi-Threaded Programming: Overview; Multithreading models; Thread Libraries; Threading issues. Process Scheduling: Basic concepts; Scheduling criteria; Scheduling algorithms; Multiple-Processor scheduling; Thread scheduling.

UNIT II:

Process Synchronization & Dead Locks **13 Hours**

Synchronization: The Critical section problem; Peterson's solution; Synchronization hardware; Semaphores; Classical problems of synchronization; Monitors.

Deadlocks: System model; Deadlock characterization; Methods for handling deadlocks; Deadlock prevention; Deadlock avoidance; Deadlock detection and recovery from deadlock.

UNIT III:

Memory Management **7 Hours**

Memory Management Strategies: Background; Swapping; Contiguous memory allocation; Paging; Structure of page table; Segmentation. Virtual Memory Management: Background; Demand paging; Copy-on-write; Page replacement; Allocation of frames; Thrashing.

UNIT IV:

File System, Implementation of File System **13 Hours**

File System: File concept; Access methods; Directory structure; File system mounting; File sharing; Protection. Implementing File System: File system structure; File system implementation; Directory implementation; Allocation methods; Free space management

UNIT V

Secondary Storage Structures, Protection and case study **12 Hours**

Mass storage structures; Disk structure; Disk attachment; Disk scheduling; Disk management; Swap space management. Protection: Goals of protection, Principles of protection, Domain of protection, Access matrix, Implementation of access matrix, Access control, Revocation of access rights, Capability-Based systems.

Linux history; Design principles; Kernel modules; Process management; Scheduling; Memory management; File systems, Input and output; Inter-process communication.

Reference Books:

1. Abraham Silberschatz, Peter Baer Galvin, Greg Gagne: Operating System Principles, 7th edition, Wiley India, 2006.

2. D.M Dhamdhere: Operating systems - A concept based Approach, 2nd Edition, Tata McGraw- Hill, 2002.
3. P.C.P. Bhatt: Operating Systems, 2nd Edition, PHI, 2006.
4. Harvey M Deital: Operating systems, 3rd Edition, Pearson Education, 2005.

2MCA4: Database Management Systems

UNIT I: Introduction

10 Hours

Introduction; An example; Characteristics of Database approach; Actors on the screen; Workers behind the scene; Advantages of using DBMS approach; A brief history of database applications; when not to use a DBMS. Data models, schemas and instances; Three-schema architecture and data independence; Database languages and interfaces; The database system environment; Centralized and client-server architectures; Classification of Database Management systems.

UNIT II: Entity-Relationship Model

10 Hours

Using High-Level Conceptual Data Models for Database Design; An Example Database Application; Entity Types, Entity Sets, Attributes and Keys; Relationship types, Relationship Sets, Roles and Structural Constraints; Weak Entity Types; Refining the ER Design; ER Diagrams, Naming Conventions and Design Issues; Relationship types of degree higher than two.

UNIT III: Relational Model and Relational Algebra

8 hours

Relational Model Concepts; Relational Model Constraints and Relational Database Schemas; Update Operations, Transactions and dealing with constraint violations; Unary Relational Operations: SELECT and PROJECT; Relational Algebra Operations from Set Theory; Binary Relational Operations : JOIN and DIVISION; Additional Relational Operations; Examples of Queries in Relational Algebra; Relational Database Design Using ER- to-Relational Mapping.

UNIT IV:

12 Hours

SQL Data Definition and Data Types; Specifying basic constraints in SQL; Schema change statements in SQL; Basic queries in SQL; More complex SQL Queries. Insert, Delete and Update statements in SQL; Specifying constraints as Assertion and Trigger; Views (Virtual Tables) in SQL; Additional features of SQL; Database programming issues and techniques; Embedded SQL, Dynamic SQL; Database stored procedures and SQL / PSM.

UNIT V: Database Design & Transaction Management

12 Hours

Informal Design Guidelines for Relation Schemas; Functional Dependencies; Normal Forms Based on Primary Keys; General Definitions of Second and Third Normal Forms; Boyce-Codd Normal Form. The ACID Properties; Transactions and Schedules; Concurrent Execution of Transactions; Lock- Based Concurrency Control; Performance of locking; Transaction support in SQL; Introduction to crash recovery and Database security.

Reference Books:

1. Elmasri and Navathe: Fundamentals of Database Systems, 5th Edition, Pearson Education, 2007.
2. Silberschatz, Korth and Sudharshan: Data base System Concepts, 5th Edition, Mc-GrawHill, 2006
3. Raghu Ramakrishnan and Johannes Gehrke: Database Management Systems, 3rd Edition, McGraw-Hill, 2003.
4. C.J. Date, A. Kannan, S. Swamynatham: A Introduction to Database Systems, 8th Edition, Pearson education, 2006.

2MCA5: Advanced Programming (JAVA)

UNIT – I

12 Hrs

Introduction to Java: Importance and features of Java, Keywords, constants, variables and Data Types, Operators and Expressions, Decision Making, Branching and Looping: if..else, switch,?: operator, while, do, for statements, labeled loops, jump statements: break, continue return. Introducing classes, objects and methods: defining a class, adding variables and methods, creating objects, constructors, class inheritance.

Arrays and String: Creating an array, one and two dimensional arrays, string array and methods, Classes: String and String Buffer classes, Wrapper classes: Basics types, using super, Multilevel hierarchy abstract and final classes, Object class, Packages and interfaces, Access protection, Extending Interfaces, packages.

UNIT – II

10 Hrs

Exception Handling: Fundamentals exception types, uncaught exceptions, throw, throw, final, built in exception, creating your own exceptions, Multithreaded Programming: Fundamentals, Java thread model: priorities, synchronization, messaging, thread classes, Runnable interface, inter thread Communication, suspending, resuming and stopping threads.

UNIT –III

10 Hrs

Input/Output Programming: Basics, Streams, Byte and Character Stream, predefined streams, Reading and writing from console and files. Using Standard Java Packages (lang, util, io, net). Networking: Basics, networking classes and interfaces, using java.net package, doing TCP/IP and Data-gram Programming

UNIT – IV

12 Hrs

Event Handling: Different Mechanism, the Delegation Event Model, Event Classes, Event Listener Interfaces, Adapter and Inner Classes, Working with windows, Graphics and Text, using AWT controls, Layout managers and menus, handling Image, animation, sound and video, Java Applet. Beans: Introduction to Java Beans and Swings, Servlets

UNIT-V

8 Hrs

Database Connectivity, JDBC architecture, Establishing connectivity and working with connection interface, Working with statements , Creating and executing SQL statements, Working with ResultSet

Reference Books:

1. Patrick Naughton and Herbertz Schildt, “Java-2 The Complete Reference”, TMH, 1999.
2. Muthu C., Programming with Java (Second Edition), TMH
3. Balagurusamy E., Programming with Java, TMH

2MCA6: DATA STRUCTURES LAB

1. Write a menu driven program to implement linear and binary search also find the location of its first occurrence
2. Write a menu driven program to sort the array in ascending/descending order using a) Quick sort b) Merge sort
3. Write a menu driven program to create a linked list and to perform insert and delete operations
4. Write a program to add two polynomials using a linked list
5. Write a menu driven program to perform insert and delete operations in a circular linked list
6. Write a menu driven program to perform operations on a stack (linked list implementation)
7. Write a menu driven recursive program to a) find factorial of a given number b) generate first N terms of a fibonacci sequence c) GCD of three numbers
8. Write a program to solve the problem of towers of hanoi with 3 pegs and N discs
9. Write a menu driven program to perform operations on a circular queue (linked list implementation)
10. Write a menu driven program to a) find the length of a string b) concatenate two strings c) to extract a substring from a given string d) finding and replacing a string by another string in a text (Use pointers and user-defined functions)
11. Write a program to convert the given infix expression into its postfix form
12. Write a program to evaluate the postfix expression with a set of values
13. Write a menu driven program to a create binary tree and to perform insert and delete operations
14. Write a menu driven program to create a binary search tree and to perform inorder, preorder and postorder traversals
15. Write a program to sort N elements in ascending order using heap sort
16. Write a program to obtain the path matrix of the given graph

2MCA7: JAVA PROGRAMMING LAB

1. Programs using constructor and destructor
2. Creation of classes and use of different types of functions
3. Count the number of objects created for a class using static member function
4. Write programs on interfaces
5. Write programs on packages
6. Write programs using function overloading
7. Programs using inheritance
8. Programs using IO streams
9. Programs using files
10. Write a program using exception handling mechanism
11. Programs using AWT
12. Programs on swing
13. Programs using JDBC



BANGALORE



UNIVERSITY

M.C.A. [MASTER OF COMPUTER APPLICATIONS]
3rd and 4th semester

w.e.f 2013-2014

JNANA BHARATHI
Psychological Counseling Building, Bangalore-56

PROCEEDINGS OF THE BOARD OF STUDIES MEETING IN MASTER OF COMPUTER APPLICATIONS (UG &PG) HELD IN THE MCA PROGRAMME, PSYCHOLOGY BUILDING, JNANABHARATHI CAMPUS, BANGALORE - 56, ON 18.01.13

The following members attended the meeting:

Dr. P. Nagabhushan	Member
Dr. P.S. Hiremath	Member
Dr. Deepak D' Souza	Member
Dr. Dilip Kumār	Member
Dr. Muralidhara B. L.	Member
Dr. Sudeendra	Member
Mr. Chitty Babu G.	Member
Ms. Sunitha Watts	Member
Ms. Durgakala Sridhar	Member
Mr. Murugan K	Member
Mr. Vijay Kumar	Member
Dr. Hanumanthappa M.	Chairman

Dr. Arun Agarwal, Mr. Nagarajan, Mr. M. T. Somashekara and Ms. Durgakala Sridhar could not attend the meeting.

The committee discussed the following matters and made resolutions as indicated below:

Item I: Revision of Syllabus for MCA, M.Sc. (CS) and B.Sc. (CS)

The syllabus for the second & third year of MCA and second year M.Sc (CS) was discussed. The Chairman is authorized to explore the contents with consultation of local members.

Item II: Duration of Core papers –“ Indian Constitution”, “Environmental Studies” and “Computer Fundamentals”.

The BoS unanimously resolved to delete “Computer Fundamentals” as a compulsory paper for the BCA and B.Sc. (CS) courses as it is redundant and also approved the number of hours for the compulsory paper “Computer Fundamentals” in other courses as 4 hrs/week.

Item III: Approval of the Panel of Ph. D Examiners for Mr. Somashekara M. T and Mrs. Mallamma V Reddy

Committee approved the Panel of Examiners of Mr. Somashekara M. T. and Mrs. Mallamma V Reddy submitted by their supervisors.

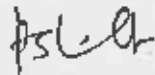
Item IV: Panel of Examiners for MCA, M.Sc. (CS) courses

Committee approved the Panel of Examiners for MCA and M.Sc. (CS) courses.

The Chairman thanked all the members present for their active participation in the meeting.


18/1/13

Dr. P. Nagabhushan



Dr. P. S. Hiremath



Dr. Deepak D' Souza



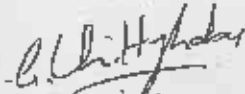
Dr. Dilip Kumar


Jan 18, 2013

Dr. Muralidhara B. L.



Dr. Sudeendra



Mr. Chitty Babu G



Ms. Santha Watts



Mr. Murugan K


18/1/13

Mr. Vijay Kumar


18/1/2013

Dr. HANUMANTHAPPA M.
CHAIRMAN
BOS IN CS (UG & PG)

SCHEME OF STUDY AND EXAMINATION FOR MASTER of COMPUTER APPLICATIONS (MCA)

I SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
1 MCA 1	Discrete Mathematics	4		20	80	100
1 MCA 2	Financial Accounting	4		20	80	100
1 MCA 3	Concepts of Computing & Problem Solving	4		20	80	100
1 MCA 4	Computer Organization	4		20	80	100
1 MCA 5	Assembly Language Programming 8086	4		20	80	100
1 MCA 6	Problem Solving Lab	---	6	20	80	100
1 MCA 7	Assembly Language Programming Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)
Total no. of hours per semester in each paper: 52 hrs/semester
(both theory and practicals)

II SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
2 MCA 1	Statistical Analysis	4	-	20	80	100
2 MCA 2	Data Structures	4		20	80	100
2 MCA 3	Operating System & UNIX	4		20	80	100
2 MCA 4	Database Management	4		20	80	100
2 MCA 5	Advanced programming (C++, JAVA)	4		20	80	100
2 MCA 6	Data Structures Lab	---	6	20	80	100
2 MCA 7	C++, JAVA Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)
Total no. of hours per semester in each paper: 52 hrs/semester
(both theory and practicals)

III SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
3 MCA 1	Fundamentals of Algorithms	4		20	80	100
3 MCA 2	System Software	4		20	80	100
3E3A	Elective I	4		20	80	100
3 MCA 4	Object Oriented Analysis and Design	4		20	80	100
3 MCA 5	Theory of Computation	4		20	80	100
3 MCA 6	Soft Skills Practices	---	6	20	80	100
3 MCA 7	Database Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

IV SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
4 MCA 1	Software Engineering	4		20	80	100
4 MCA 2	Computer Networks	4		20	80	100
4 MCA 3	Computer Graphics	4		20	80	100
4 E4A	Elective II	4		20	80	100
4 E5A	Elective III	4		20	80	100
4 MCA 6	Algorithm Lab	---	6	20	80	100
4 MCA 7	Graphics Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

V SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
S MCA 1	Human Resource Management	4		20	80	100
S MCA 2	Information & Network Security	4		20	80	100
S MCA 3	Internet Technology	4		20	80	100
S ESA	Elective IV	4		20	80	100
S ESB	Elective V	4		20	80	100
S MCA 6	Internet Programming & UNIX Lab	---	6	20	80	100
S MCA 7	Software Engineering Lab	---	6	20	80	100
					Total	700

Duration of Exam: 3 Hours (Theory and practical)

Total no. of hours per semester in each paper: 52 hrs/semester (both theory and practicals)

VI SEMESTER

Individual Project Work and Viva Voce

Duration of the project is six months. During the project work the students are to interact with the Internal guides / External guides.

The evaluation pattern is:

IA	-	150
Project demo + Viva	-	350
Total marks	-	500

Scheme for the examination:

Part A: 4 questions (out of 6) with 8 marks each
 Part B: 4 questions (out of 6) with 12 marks each

3MCAI FUNDAMENTALS OF ALGORITHMS

Prerequisite: Programming methodology and Data Structures

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

Unit I: Introduction: Notion of Algorithm, Fundamentals of Algorithmic Problem Solving, Important Problem Types, Analysis of Algorithm Efficiency: Analysis framework, Asymptotic Notations and Basic Efficiency Classes, mathematical Analysis of Non recursive Algorithms, Mathematical Analysis of Recursive Algorithms, Example-Fibonacci Numbers, Empirical Analysis of Algorithms, Algorithm Visualization, Brute Force: Selection Sort and Bubble Sort, Sequential Search and Brute-Force String matching, Closest-Pair and Convex-Hull Problems by Brute-Force, Exhaustive Search. **12 hours**

Unit II: Divide and Conquer: Merge Sort, Quick Sort, Binary Search, Binary Tree Traversals, Strassen's Matrix Multiplication, Closest-Pair and Convex-Hull Problems, Decrease and Conquer: Insertion Sort, Depth-First and Breadth-First Search, Topological Sorting, Transform and Conquer: Presorting, Horner's Rule and Binary Exponentiation. **10 hours**

Unit III: Space and Time Tradeoff: Sorting by Counting, Input Enhancement in String Matching, Dynamic Programming: Computing a Binomial Coefficient, Warshall's and Floyd's Algorithms, Optimal Binary Search Trees, Knapsack Problem and Memory Functions. **10 hours**

Unit IV: Greedy Technique: Prim's, Kruskal's, and Dijkstra's Algorithm, Huffman Tree Limitations of Algorithm Power: Lower-Bound Arguments, Decision Trees, P, NP, and NP-complete Problems, Backtracking: 4-Queen, 8-Queen, n-Queens, Hamiltonian Circuit, and Sum of Subset problem. **10 hours**

Unit V: Branch and Bound: Assignment, Knapsack, and Traveling Salesman Problem, Approximation Algorithms for NP-hard Problems: Traveling Salesman, and Knapsack Problem. **10 hours**

Reference Books:

1. Anany Levitin, "Introduction to The Design & Analysis of Algorithms", 3rd Edition Pearson Education, 2012
2. Aho, Hopcraft and Ullman :The Design and Analysis of Computer Algorithms, Pearson Education.-2000
3. Algorithm Design by Michael T Goodrich & Roberto Tamassia, John Wiley & Sons.-2002

3MCA2 SYSTEM SOFTWARE

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 Total 100

UNIT I: INTRODUCTION

System software and machine architecture – The Simplified Instructional Computer (SIC) - Machine architecture - Data and instruction formats - addressing modes - instruction sets - I/O and programming. -

10 hours

UNIT II: ASSEMBLERS

Basic assembler functions - A simple SIC assembler – Assembler algorithm and data structures - Machine dependent assembler features - Instruction formats and addressing modes - Program relocation - Machine independent assembler features - Literals – Symbol-defining statements – Expressions - One pass assemblers and Multi pass assemblers - Implementation example - MASM assembler.

12 hours

UNIT III: LOADERS AND LINKERS

Basic loader functions - Design of an Absolute Loader – A Simple Bootstrap Loader - Machine dependent loader features - Relocation – Program Linking – Algorithm and Data Structures for Linking Loader - Machine-independent loader features – Automatic Library Search – Loader Options - Loader design options - Linkage Editors – Dynamic Linking – Bootstrap Loaders - Implementation example - MSDOS linker.

10 hours

UNIT IV: MACRO PROCESSORS

Basic macro processor functions - Macro Definition and Expansion – Macro Processor Algorithm and data structures - Machine-independent macro processor features - Concatenation of Macro Parameters – Generation of Unique Labels – Conditional Macro Expansion – Keyword Macro Parameters-Macro within Macro-Implementation example - MASM Macro Processor – ANSI C Macro language.

10 hours

UNIT V: SYSTEM SOFTWARE TOOLS

Text editors - Overview of the Editing Process - User Interface – Editor Structure. - Interactive debugging systems - Debugging functions and capabilities – Relationship with other parts of the system – User-Interface Criteria.

10 hours

Reference Books:

1. Leland L. Beck, "System Software – An Introduction to Systems Programming", 3rd Edition, Pearson Education Asia, 2006.
2. D. M. Dhandhere, "Systems Programming and Operating Systems", Second Revised Edition, Tata McGraw-Hill, 2000.
3. John J. Donovan "Systems Programming", Tata McGraw-Hill Edition, 2000.
4. John R. Levine, Linkers & Loaders – Harcourt India Pvt. Ltd., Morgan Kaufmann Publishers, 2000.

3MCA4: OBJECT ORIENTED ANALYSIS AND DESIGN (Using UML)

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT-I: Introduction to UML: Importance of modeling, principles of modeling, object oriented modeling, conceptual model of the UML, Architecture, Software Development Life Cycle. **10 hours**

UNIT-II: Basic Structural Modeling: Classes, Relationships, common Mechanisms, and diagrams. Advanced Structural Modeling: Advanced classes, advanced relationships, Interfaces, Types and Roles. Packages. Class & Object Diagrams: Terms, concepts, modeling techniques for Class & Object Diagrams. **12 hours**

UNIT- III: Basic Behavioral Modeling-I: Interactions, Interaction diagrams. Basic Behavioral Modeling-II: Use cases, Use case Diagrams, Activity Diagrams. **10 hours**

UNIT-IV: Advanced Behavioral Modeling: Events and signals, state machines, processes and Threads, time and space, state chart diagrams. **10 hours**

UNIT-V: Architectural Modeling: Component, Deployment, Component diagrams and Deployment diagrams. Case Study: The Unified Library application **10 hours**

Reference Books:

1. Grady Booch, James Rumbaugh, Ivar Jacobson : The Unified Modeling Language User Guide, Pearson Education.
2. Hans-Erik Eriksson, Magnus Penker, Brian Lyons, David Fado: UML 2 Toolkit, WILEY-Dreamtech India Pvt. Ltd.
3. Meilir Page-Jones: Fundamentals of Object Oriented Design in UML. Pearson Education.
4. Pascal Roques: Modeling Software Systems Using UML2. WILEY-Dreamtech India Pvt. Ltd.
5. Atul Kahate: Object Oriented Analysis & Design. The McGraw-Hill Companies.
6. Mark Priestley: Practical Object-Oriented Design with UML, TATA McGrawHill
7. Applying UML and Patterns: An introduction to Object - Oriented Analysis and Design and Unified Process, Craig Larman, Pearson Education.

3MCA5: THEORY OF COMPUTATION

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT- I: Strings, Alphabets and Languages, Deterministic Finite Automation (DFA), Non Deterministic Finite Automation(NFA), Equivalence of NFA and DFA without proof, Automation with ϵ -moves, Moore and Mealy machines, two way automation, Equivalence of one way and two way automata. Example of lexical analyzer, Regular expressions-their equivalence to finite automata. **14 hours**

UNIT-II: Regular sets and their properties, Pumping lemma for regular sets, Decision algorithms, Myhill-Nerode theorem, Minimization automata, Minimization algorithm **10 hours**

UNIT-III: Grammars and their type, Context free grammars, Derivation trees, Simplification of context free grammars, Normal forms of Chomsky and Greibach **10 hours**

UNIT-IV: Push down automata and Context free languages, Equivalence of PDAs and CFLs, Properties of Context free languages, Turing machines. **10 hours**

UNIT -V: Properties of recursive and recursively enumerable languages, Greibach theorem, Recursive function theory **8 hours**

Reference Books:

1. John E Hopcroft and Jeffery D Ullmann. "Introduction to Automata Theory", Pearson Education. - 2004
2. Gyorgy E Revesz. "Introduction to Formal Languages", May 1991
3. Madrioli & Ghezzi: Theoretical Foundations of Computer Science- Krieger Publications & Co. - 1993
4. Derick Wood: Theory of Computation - John Wiley 1987
5. Daniel Cohen: Theory of Computation - Wiley 1996

3MCA6: SOFT SKILL PRACTICES

The objective of this subject is to foster an all round development of students by focusing on soft skills and also to make student aware about the importance, the role and the content of soft skills through instruction, knowledge acquisition, and practice.

The topics to be covered during the practicals:

Verbal Communication includes Planning, Preparation Delivery, Feedback and assessment of activities like: Public speaking, Group Discussion, Oral Presentation skills, Perfect Interview, Listening and observation skills, body language and use of Presentation aids.

Written communication that includes project proposals, brochures, newsletters, articles.

Etiquettes that include: etiquettes in social as well as office settings, email etiquettes, telephone etiquettes etc.

Improving Personal Memory, study skills that include rapid reading, notes taking and creativity. Problem solving and decision making skills, perceptive, conceptual, creative, analytical and decisive.

Time management skills, HR skills: leadership, communication, negotiation, motivating (inter personal and inter group).

3MCA7 DATABASE LAB

- 1 Database Customization
- 2 Creating Databases/Table spaces
- 3 Create Objects
- 4 Moving Data
- 5 Recovery
- 6 Locking
- 7 Preparing Applications for Execution using a front end tool
- 8 Application Performance Tool

The students are supposed to practice and develop a mini application for above mentioned lab. The students can do the activity in a group (team) consisting of not more than 2 students.

The entire application to be submitted by each team should be done with all the above activities. The examiner may ask to perform any of the above activity in the practical examination.

Elective I

3E3A: LINUX SYSTEM PROGRAMMING

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: Linux Evolution, Introduction, and Setup, Main characteristics of Linux OS, Linux Distributions, Basic Linux installation and administration, General kernel responsibilities, Kernel Overview, Kernel modules, Linux versus other Unix like Kernels, Memory Addressing, Memory Addresses, Segmentation in Hardware, Segmentation in Linux, Paging in Hardware, Paging in Linux, Page Frame Management, Swapping, Swap Cache.

12 hours

Unit II: Processes, Process structure, Process Table, Viewing processes, System processes, Process scheduling, Scheduling policy, The Scheduling Algorithm, System calls related to scheduling, Starting New processes, Waiting for a process, Zombie process, Signals, The Role of signals, Generating a signal, Delivering a signal, System calls related to Signal Handling.

10 hours

Unit III: Interprocess communication, Pipes, FIFOs, Virtual file system, Virtual file system data structure, File system types, File system mounting, File locking, Managing I/O Devices, I/O Architecture, Device Drivers, The Ext 2 and Ext 3 File system, Networking, System calls related to Networking, Sending / Receiving packets from the Network Card.

10 hours

Unit IV: An Introduction to Device Drivers, Building and Running Modules, Char Drivers, Debugging techniques, Concurrency and Race conditions, Advance Char Driver Operations, Communicating with Hardware, Interrupt Handling.

10 hours

Unit V: Embedded Linux, Architecture of Embedded Linux, Embedded Development Environment, GNU cross platform tool chain : GNU toolchain basics ,Kernel Headers Setup , Binutils Setup, Bootstrap Compiler Setup ,C Library Setup ,Full Compiler Setup, Finalizing the toolchain Setup ,Using the toolchain.

10 hours

Reference Books:

1. Daniel P Bovet & Marco Cesati, 'Understanding the Linux Kernel', 3rd Ed., O'Reilly, 2005.
2. Jonathan Corbet & Alessandro Rubini, 'Linux Device Drivers', O'Reilly, 3rd Ed., 2005.
3. Karim Yaghmour, 'Building Embedded Linux Systems', O'Reilly, 2nd Ed., 2008.
4. Robert Love, 'Linux Kernel Development', Novell Press, 2nd Ed., Jan 2005.
5. Michael Beck, Harald Bohme, 'Linux Kernel Internals', Addison-Wesley Professional, 2nd Ed., 1997.
6. Richard Stones, Neil Matthew, 'Beginning Linux Programming', Wrox Publishers, 4th Ed., 2007.
7. Christopher Hallinan, 'Embedded Linux Primer: A Practical Real-World Approach', PHI, 1st Ed., 2006.
8. P. Raghavan, Amol Lad, 'Embedded Linux System Design and Development', 1st Ed., Auerbach, 2005.

3E3B COMPUTER ARCHITECTURE

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

Unit I: Data types - number system, octal & hexadecimal, decimal, alphanumeric representation; complements - $(r-1)$'s, r 's, subtraction of unsigned numbers; fixed point representation-integer representation, arithmetic addition, arithmetic subtraction; floating point representation; gray code; error detection code; Digital logic circuit- Logic gates, Boolean Algebra, Map simplification, Combinational circuits - Half adder, full adder, Flip Flops: SR, D, JK, T, Edge-triggered, Sequential circuits: state table, state diagram, design example.

12 hours

Unit II: Instruction codes, computer registers, instructions, timing and control, instruction cycle, memory-reference instructions, input-output and interrupt, design of basic computer, design of accumulator logic, Assembly language, the assembler, subroutines.

10 hours

Unit III: Microprogrammed control, control memory, address sequencing, design of control unit, Central Processing unit, register organization, stack organization, instruction format, addressing modes, data transfer and manipulation, program control, Reduced Instruction Set.

10 hours

Unit IV: Memory hierarchy, main memory, auxiliary memory, associate memory, cache memory, virtual memory, memory management hardware, Input-output organization - peripheral devices, input-output interface, asynchronous data transfer, modes of transfer, priority interrupt, Direct Memory Access, Input-output processor, serial communication.

10 hours

Unit V: I/O: Parallel processing, Pipelining, arithmetic pipeline, Instruction pipeline, vector processing, array processors, Interconnection structure, interprocessor arbitration, interprocessor communication and synchronization, cache coherence.

10 hours

Reference Books:

1. Morris Mano, "Computer System Architecture", 3rd Edition, Pearson Education, 2007
2. Kai Hwang, Zhiwei Xu, "Scalable Parallel Computing", McGrah-Hill Publication, 2000
3. Joh P. Hayes, "Computer Architecture and Organization", 3rd Edition, McGrah-Hill Publication, 2007

3E3C OPTIMIZATION TECHNIQUES

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: Definition of OR, Model in OR, principle of modelling. Introduction to Linear and non-linear programming and Formulation. Linear Programming : Characteristics, Assumptions and Applications, Graphical Solution of two variables LPP, LP in standard form, Solution of LP by Simplex and revised simplex methods. cases of LP. **15 hours**

UNIT II: Duality and Dual Simplex method. Sensitivity analysis of LPP, Special types of LPP's :-Transportation, Assignment, Traveling-Salesman problem. **10 hours**

UNIT III: Network Models : Definition, Minimum Spanning Tree algorithm, Shortest Route problem. Maximum flow problem. CPM & PERT : Network representation, Critical Path Computations, Linear Programming formulation of CPM, PERT Networks. **10 hours**

UNIT IV: Dynamic programming: Deterministic and Probabilistic Dynamic programming **7 hours**

UNIT V: Queuing System: Elements of Queuing model, Pure birth and death models, Generalized Poission Queuing model, specialized poission. Queues : Steady-state Measure of performance, single sever models, Multiple server models. Matching serving model. **10 hours**

Reference Books:

1. H.A. Taha, Operations Research, PHI, New Delhi. - 1996
2. A Ravindram, Phillips and Solberg. Operation Rescarch. John Wiley and Sons. -1987
3. Simulation Based Optimization by Abhijit Gosavi. Kluwer Academic Publishers - 2003.

FOURTH SEMESTER
4MCAI SOFTWARE ENGINEERING

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: Software, Software engineering, Software process: process models, agile development, Modeling: principles that guide practice, understanding requirements, requirement modelling: scenario, information, analysis classes, flow, behavior, patterns, and webApps. **12 hours**

UNIT II: Design concepts: Architectural design, component-level design, user-interface design, pattern based design, Web applications design. **10 hours**

UNIT III: Quality concept, review techniques, software quality assurance, software testing strategies, testing conventional applications, testing object-oriented applications, testing web applications, formal modelling and verification, software configuration management. **10 hours**

UNIT IV: Product metrics, project management concepts, process and project metrics, estimation for software projects, project scheduling, risk management, maintenance and reengineering. **10 hours**

UNIT V: Software process improvement, emerging trends in software engineering. **10 hours**

Reference Books:

1. Roger Pressman, Software Engineering: A Practitioner's approach, 7th edition, 2009
2. Ian Sommerville, Software Engineering, 9th edition, 2010

4MCA2 COMPUTER NETWORKS

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: DATA COMMUNICATIONS

Components – Direction of Data flow – networks – Components and Categories – types of Connections – Topologies – Protocols and Standards – ISO / OSI model – Transmission Media – Coaxial Cable – Fiber Optics – Line Coding – Modems – RS232 Interfacing sequences.

12 hours

UNIT II: DATA LINK LAYER

Error – detection and correction – Parity – LRC – CRC – Hamming code – flow Control and Error control – stop and wait – go back-N ARQ – selective repeat ARQ – sliding window – HDLC – LAN – Ethernet IEEE 802.3 – IEEE 802.4 – IEEE 802.5 – IEEE 802.11 – FDDI – SONET – Bridges.

10 hours

UNIT III: NETWORK LAYER

Internetworks – Packet Switching and Datagram approach – IP addressing methods – Subnetting – Routing – Distance Vector Routing – Link State Routing – Routers. **10 hours**

UNIT IV: TRANSPORT LAYER

Duties of transport layer – Multiplexing – Demultiplexing – Sockets – User Datagram Protocol (UDP) – Transmission Control Protocol (TCP) – Congestion Control – Quality of services (QOS) – Integrated Services. **10 hours**

UNIT V: APPLICATION LAYER

Domain Name Space (DNS) – SMTP – FTP – HTTP – WWW – Security – Cryptography.

10 hours

Reference Books:

1. Andrew S. Tanenbaum, "Computer Networks", PHI, Fourth Edition, 2003.
2. William Stallings, "Data and Computer Communication", Sixth Edition, Pearson Education, 2000.
3. James F. Kurose and Keith W. Ross, "Computer Networking: A Top-Down Approach Featuring the Internet", Pearson Education, 2003.
4. Larry L. Peterson and Peter S. Davie, "Computer Networks", Harcourt Asia Pvt. Ltd., Second Edition.
5. Behrouz A. Forouzan, "Data communication and Networking", Tata McGraw-Hill, 2004.
6. James F. Kurose and Keith W. Ross, "Computer Networking: A Top-Down Approach Featuring the Internet", Pearson Education, 2003.

4MCA3 COMPUTER GRAPHICS

Note: The total number of hours allotted for each subject in a semester is 52 hrs

The number of theory hours per week is 4 hours.

The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: Basics of Computer Graphics and Graphics Devices: Introduction , Applications of Computer Graphics , How are pictures actually stored and displayed , Difficulties in displaying pictures , Cathode Ray Tube, CRTs for Color Display , Beam Penetration CRT , The Shadow - Mask CRT, Direct View Storage Tube, Tablets , The light Pen, Three Dimensional Devices. **12 hours**

UNIT II: Drawing Primitives and Two Dimensional Transformations: Introduction, Point Plotting Techniques. Qualities of good line drawing algorithms. The Digital Differential Analyzer (DDA) . Bresenham's Algorithm , Generation of Circles , What is transformation? , Matrix representation of points, Basic transformation, Translation, Rotation, Scaling **10 hours**

UNIT III: Clipping and Windowing: Introduction, Need for Clipping and Windowing, Line Clipping Algorithms The midpoint subdivision Method, Other Clipping Methods, Sutherland - Hodgeman Algorithm, Viewing Transformations **10 hours**

UNIT IV: THREE DIMENSIONAL GRAPHICS: INTRODUCTION , Need for 3-Dimensional Imaging , Techniques for 3-Dimensional displaying, Parallel Projections , Perspective projection, Intensity cues, Stereoscope effect , Kinetic depth effect , Shading , Three-Dimensional transformations (Translation, Scaling, Rotation). **10 hours**

UNIT V: Curves and Surfaces, and Hidden Surface Removal : Shape description requirements , Parametric functions, Bezier methods, Bezier curves, Bezier surfaces, B-Spline methods. Need for hidden surface removal , The Depth - Buffer Algorithm , Properties that help in reducing efforts, Scan Line coherence algorithm , Span - Coherence algorithm , Area-Coherence Algorithms and Warnock's Algorithm. **10 hours**

Reference Books:

1. Principles of Interactive Computer Graphics – By Newman & Sproull
2. C Graphics & Projects – By B M Havaldar
3. Computer Graphics – By Hearn & Baker
4. Computer Graphics for Scientists and Engineers – By Asthana and Sinha

4MCA6 ALGORITHMS LAB

Implement the following algorithms using C/C++ language and analyze the efficiency

- 1 Perform (i) recursive binary search and (ii) linear search. Hence, find the time required to search an element.
- 2 Sort a given set of elements using Selection Sort method.
- 3 Sort a given set of elements using Quick Sort method.
- 4 Sort a given set of elements using merge Sort method.
- 5 Sort a given set of elements using insertion Sort method.
6. Implement tower of hanoi
- 7 To generate Fibonacci series
- 8 Perform DFS for a graph. Using this display all the strongly connected components.
- 9 Obtain the topological ordering of vertices in a given digraph
- 10 From a given vertex in a weighted connected graph, find the shortest paths to other vertices using Dijkstra's algorithm.
- 11 Find minimum cost spanning tree of a given undirected graph using Kruskal's algorithm.
- 12 Implement all pairs shortest path problem using Floyd's
- 13 Find a subset of a given set $S = \{s_1, s_2, \dots, s_n\}$ of n positive integers whose sum is equal to a given positive integer d .
14. Implement brute-force method of string matching
- 15 Implement Horspool algorithm for string matching
- 16 Find the binomial coefficient using dynamic programming
- 17 Find the minimum cost spanning tree of a given undirected graph using Prim's algorithm.
- 18 Compute the transitive closure of a given directed graph using Warshall's algorithm.

4MCA7 GRAPHICS LAB

1. Write a C program to implement DDA line drawing algorithm.
2. Write a C program to implement DDA circle drawing algorithm.
3. Write a C program to implement Bresenhams line drawing algorithm.
4. Write a C program to implement Bresenhams circle drawing algorithm.
5. Write a C program to implement Bresenhams ellipse drawing algorithm.
6. Write a C program to do two Dimensional transformations - Translation, Reflection, and Shear.
7. Write a C program to do two Dimensional transformations - Rotation (With and without pivot point), Scaling (With and without pivot point).
8. Write a C program to do composite 2D Transformations - Translation, Scaling, Rotation.
9. Write a C program to do composite 2D Transformations -fixed point scaling, fixed point rotation.
10. Write a C program to implement Cohen Sutherland 2D line clipping algorithm.
11. Write a C program to implement Sutherland - Hodgeman Polygon clipping Algorithm.
12. Write a C program to do three dimensional transformations - Translation, Rotation, Scaling.
13. Write a C program to do composite 3D transformations - Translation, Rotation, Scaling.
14. Write a C program to do the projection of the 3D image.

List of Electives

The students can choose any two electives from the list

4EA DATA AND KNOWLEDGE MINING

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: DATA WAREHOUSING

Data Warehousing Components - Building a Data Warehouse - Mapping the Data Warehouse to a Multiprocessor Architecture - DBMS Schemas for Decision Support - Data Extraction, Cleanup, and Transformation Tools - Metadata. **10 hours**

UNIT II: BUSINESS ANALYSIS

Reporting and Query tools and Applications - Tool Categories - The Need for Applications - Cognos Impromptu - Online Analytical Processing (OLAP) - Need - Multidimensional Data Model - OLAP Guidelines - Multidimensional versus Multirelational OLAP - Categories of Tools - OLAP Tools and the Internet. **10 hours**

UNIT III: DATA MINING

Introduction - Data - Types of Data - Data Mining Functionalities - Interestingness of Patterns - Classification of Data Mining Systems - Data Mining Task Primitives - Integration of a Data Mining System with a Data Warehouse - Issues - Data Preprocessing. **10 hours**

UNIT IV: ASSOCIATION RULE MINING AND CLASSIFICATION

Mining Frequent Patterns, Associations and Correlations - Mining Methods - Mining Various Kinds of Association Rules - Correlation Analysis - Constraint Based Association Mining - Classification and Prediction - Basic Concepts - Decision Tree Induction - Bayesian Classification - Rule Based Classification - Classification by Backpropagation - Support Vector Machines - Associative Classification - Lazy Learners - Other Classification Methods - Prediction. **12 hours**

UNIT V: CLUSTERING AND APPLICATIONS AND TRENDS IN DATA MINING

Cluster Analysis - Types of Data - Categorization of Major Clustering Methods - Kmeans - Partitioning Methods - Hierarchical Methods - Density-Based Methods - Grid Based Methods - Model-Based Clustering Methods - Clustering High Dimensional Data - Constraint - Based Cluster Analysis - Outlier Analysis - Data Mining Applications. **10 hours**

Reference Books:

1. Alex Berson and Stephen J. Smith, "Data Warehousing, Data Mining & OLAP", Tata McGraw - Hill Edition, Tenth Reprint 2007.
2. Jiawei Han and Micheline Kamber, "Data Mining Concepts and Techniques", Second Edition, Elsevier, 2007.
3. Pang-Ning Tan, Michael Steinbach and Vipin Kumar, "Introduction To Data Mining",

Person Education, 2007.

4. K.P. Soman, Shyam Diwakar and V. Ajay “, Insighu into Data mining Theory and Practice”, Easter Economy Edition, Prentice Hall of India, 2006.
5. G. K. Gupta, “ Introduction to Data Mining with Case Studies”, Easter Economy Edition, Prentice Hall of India, 2006.
6. Daniel T.Larose, “Data Mining Methods and Models”, Wile-Interscience, 2006.

4EB MULTIMEDIA COMMUNICATIONS

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I:

Introduction: What are multi media, multimedia application, Goal and objectives, Multimedia building blocks, multimedia and internet.

Multimedia Configuration: Multimedia PC workstation components, multimedia platform, multimedia development tool, authoring tool, Interactivity, High end multimedia architectures, MULTIMEDIA OPERATING SYSTEM File system (File format: TIEF, BMP, PCX, GIF etc.) Process management, multimedia communication system, multimedia database management system. — **12 hours**

UNIT II:

Multimedia Audio: Basic sound concepts, audio capture, music, speech sound processor, sound recovery technique, VOC4WAV file formats for sound.

Multimedia graphics: 2D/3D animation fundamentals, color modules **DIGITAL IMAGING:** still and moving images; video capture animation video, Processing, video Frecovery techniques, AVO, AVI file formats, NTSC, PAL, SECAM, HDTV, system video/audio conferencing techniques and standards, video streaming, motion of synchronization. **12 hours**

UNIT III:

Image Compression techniques: LZW, DCT run length coding, JPEG, MPEG, standard hypertext MHEG, Hypertext and Hypermedia, document architecture ODA, MHEG.

Augmented and virtual reality and multimedia: Concept, VR devices: hand Gloves, head mounted tracking system, V R Chair, CCD, VCR 3D, sound system, Head Mounted Displays and rendering software setup, Virtual objects, VRML. **10 hours**

UNIT IV:

Multimedia devices: Mass storage systems for multimedia requirements, Magnetic devices, Optical devices, CDROM, DVD, Scanners: Types and specifications. **10 hours**

UNIT V: Windows support to Multimedia; Multimedia Databases (in Oracle), multimedia function calls, windows support for sound, animation, movies, music and midi controls. — **08 hours**

Case study: Multimedia and UNIX, Virtual Coffee house application.

Reference Books :

1. Ralf Steinmetz & Klara Nahr Stedt, PHI Publications: Multimedia - Computing, Communications and Applications, 2003.
2. Judith Jefeoate, Multimedia in Practice: Technology and Application PHI 1998.
3. Durano R Begault, Virtual Reality and Multimedia, AP Professionals, 2003
4. Micheal J Young, Windows multimedia and animation with C++ programming for Win95, AP Professional, 2004
5. Kris Jama, Phil Schmauder, nelson Yee, VRML Programmer's Library, Galgotia 2003
6. Joe Gradicki, Virtual reality Construction Kit, Jhon Wile & Sons Inc. May 1994
7. Aitken Jarol, Visual C++ Multimedia Adventure set, Coriolis Group books May 15, 1995

4EC MOBILE COMMUNICATION

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I: Introduction and Overview

History of Wireless Communications, Communication Fundamental Review and Wireless Communication Technology Transmission fundamentals, Communication Networks, TCP/IP Suite. **08 hours**

UNIT II: Wireless Communication Technology

Frequency for Radio Transmission, Signal Antennas, Signal Propagation, Multiplexing, Modulation, Spread Spectrum, Coding and Error Control. **08 hours**

UNIT III: Mobile Internet & Cellular Networks

WAE, WML, WAP 2.0 protocol, XHTML, CHTML, Frequency reuse, First Generation, Second Generation, Third Generation systems. GSM and CDMA Fundamentals **10 hours**

UNIT IV: Fixed Wireless Networks and Wireless Local Loop, WiMAX, Rural wireless network, VSAT, Wireless LANs

Cordless Systems, WLL, IEEE 802.16, Cellular Wireless Network - GPRS, 2.5G, 3G - WCDMA.

IEEE 802.11 Protocol Architecture, 802.11 Architecture and Services, MAC and Physical Layer WiFi security - WPA2 **14 hours**

UNIT V: Bluetooth, Mobile Computing Platform, Application Design for Mobile devices

Overview, Radio Specification, Baseband Specification, Link Manager Specification, Logical Link Control and Adaptation, TAPI, OS, J2ME and MIDP **12 hours**

Reference Books:

1. Jochen Schiller "Mobile Communications", Addison Wisley, Pearson Education
2. S Stallings, W. "Wireless Communications and Networks"
3. Roy Blake, "Wireless Communication Technology", Cengage Learning, India Edition
4. Mark Ciaampa, Jorge Olenewa, "Wireless Communications", Cwenage learning
5. Principles of Mobile Computing Uwe Hansmann, et. Al, Springer International Ed
6. Dharma Prakash Agarwal, Qing-AnZeng, "Introduction to Wireless and Mobile System", Cengage Learning
7. J2ME Complete Reference Book. TMH
8. HTML/XHTML. Complete Reference Book, TMH

4ED BIOINFORMATICS

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

Unit I: Introduction and biological databases, sequence alignment: pairwise sequence, database similarity searching, multiple sequence alignment, profiles and Hidden Markov Models, Protein Motifs and Domain Prediction **10 hours**

Unit II: Gene and Promoter Prediction: Gene Prediction, Promoter and Regulatory Element Prediction, Molecular Phylogenetics: Phylogenetics Basics, Phylogenetic Tree Construction Methods and Programs **10 hours**

Unit III: Structural Bioinformatics: Protein structure Basics, Protein structure Visualization, Comparison, and classification **8 hours**

Unit IV: Protein secondary structure prediction, protein tertiary structure prediction, RNA structure prediction **10 hours**

Unit V: Genomics and Proteomics: Genome Mapping, Assembly, and Comparison, Functional Genomics, Proteomics **10 hours**

References:

1. Jin Xiong. Essential Bioinformatics. Cambridge Publications, 2007
2. Sethubal/Meidanis. Introduction to Computational Molecular Biology, Thomson International Edition, 1997

4EE ENTERPRISE COMPUTING

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I:

The Microsoft .NET Framework – Introduction, Common Language Runtime, .NET Complaint Programming Languages, Creating Assemblies, Understanding Metadata, Using System Services, Microsoft Intermediate Language, Using Namespace, The Common Type System, Relying On Automatic Resource Management, Introduction to Visual Studio .NET & VB.NET Programming Fundamentals – Variables & Types, Program Flow Control, Working with Data Structures, String Handling, Error Handling. **12 hours**

UNIT II:

Object Oriented Programming – Classes, Constructors, Inheritance & Interfaces, Applying Object & Components – Abstraction, Encapsulation, Polymorphism, Advanced Programming – Windows Forms – Forms as Classes, Forms at Design Time, Forms at Runtime Controls, Creating Windows Controls – Source of Controls, Developing Custom Controls in .NET, Inheriting from an Existing Control, The Control & UserControl Base Classes, Composite UserControl, Windows Services – Characteristics, interacting with Windows Services, Creating a Windows Service. **10 hours**

UNIT III:

Database: Data Access with ADO.NET, ADO.NET components, .NET Data Providers, The DataSet Component, Data Binding – Presenting Data, Master / Details, Data Binding, Forms, Using XML in VB.NET – Introduction to XML, XML Serialization, System XML Document Support, XML Stream Style Parsers. **10 hours**

UNIT IV

Working with Classing COM & Interfaces – COM, COM & .NET, Active X Controls, Using .NET Components in COM World, Threading – Processes, AppDomains, and Threads, Thread Scheduling, Thread Safety & Thread Affinity, Remoting – Basic Terminology, SingleCall, Singleton & Activated Objects, Security in the .NET Framework – Concepts, Permissions, Application Deployment. **10 hours**

UNIT V

Developing Web Applications – Anatomy, Controls Available, Events in Web Forms, Web Forms, Versus ASP, Creating Web Controls – Types of Custom Web Controls, Creating a Web User Control, Creating a Subclassed Control, Introduction to Web Services. **10 hours**

Reference Books:

1. Bill Evjen, Billy Hollis, Rockford Lhotka, Tim Mc Carthy, 'Professional VB.NET 2003', 2004 Edition, Wiley Publishing.
2. Cameron Wakefield, Henk-Evert Sonder, Wei Meng Lee, 'VB.NET Programming Developer's Guide', IDG Books, 2001.
3. Steven Holzner, 'Visual Basic .NET Programming Black Book', Dreamtech Press 2006.

4EF DIGITAL IMAGE PROCESSING

Note: The total number of hours allotted for each subject in a semester is 52 hrs
The number of theory hours per week is 4 hours.
The evaluation pattern for each paper is CE 20 + UE 80 = Total 100

UNIT I:

Introduction: What is digital image processing Origins, application areas, Fundamental steps in digital image processing, components of an image processing system. Digital Image Fundamentals: elements of visual perception, light and electromagnetic spectrum, image sensing and acquisition, image sampling and quantization, some basic relationship between pixels.
Intensity Transformations: Basics of intensity transformations, some basic intensity transformation functions, histogram processing. **12 hours**

UNIT II:

Spatial Filtering: fundamentals of spatial filtering, smoothing and sharpening filters. Frequency domain Filtering: Background, preliminary concepts, sampling, Fourier transforms and DFT, 2-D DFT and properties, frequency domain filtering, low pass filters, high pass filters, implementation. **10 hours**

UNIT III:

Image restoration and Reconstruction: Noise models, restoration in the presence of noise, linear-positive invariant degradations, inverse filtering, Wiener filtering, constrained least square filtering, geometric mean filter.
Color Image Processing: color fundamentals, color models, pseudo color and full color image processing, color transformations, smoothing and sharpening, noise in color images. **10 hours**

UNIT IV:

Image Compression: fundamentals, basic compression methods, digital image watermarking, color image compression.
Morphological Image Processing: preliminaries, erosion and dilation, opening and closing, some basic morphological algorithms, gray-scale morphology. **10 hours**

UNIT V:

Image Segmentation: fundamentals, point, line and edge detection, thresholding, region based segmentation, use of motion in segmentation. **10 hours**

References:

1. Rafael C Gonzalez & Richard E. Woods, 'Digital Image Processing', 3rd Ed., PHI, 2008.
2. Anil K. Jain, 'Fundamentals of Digital Image Processing', Prentice Hall, 2008.
3. William K. Pratt, 'Digital Image Processing', John Wiley & Sons, 3rd Ed., 2001.

V SEMESTER

Subject code	Subject Name	Lecture & Tutorials Hrs/week	Lab Hrs/week	Internal Assessment	Exam marks (Maximum)	Total
5 MCA 1	Human Resource Management	4		20	80	100
5 MCA 2	Information & Network Security	4		20	80	100
5 MCA 3	Internet Technology	4		20	80	100
5 E5A	Elective IV	4		20	80	100
5 E5B	Elective V	4		20	80	100
5 MCA 6	Internet Programming & UNIX Lab	---	6	20	80	100
5 MCA 7	Software Engineering Lab	---	6	20	80	100
Total						700

Duration of Exam: 3 Hours (Theory and practical)
 Total no. of hours per semester in each paper: 52 hrs/semester
 (both theory and practicals)

VI SEMESTER

Individual Project Work and Viva Voce

Duration of the project is six months. During the project work the students are to interact with the Internal guides / External guides.

The evaluation pattern is:

IA	-	150
Project demo + Viva	-	350
Total marks	-	500

Scheme for the examination:

Part A: 4 questions (out of 6) with 8 marks each
 Part B: 4 questions (out of 6) with 12 marks each

5MCA1:HUMAN RESOURCE MANAGEMENT

UNIT - I

[12Hours]

Human Resource Management: Organisational Context: Meaning and Definitions of HRM, Significance of HRM, Functions of HRM, Objectives of HRM, Organisation Design and Line Staff Relations, Evolution and Development of HRM. HRM: Environment and Strategies: Introduction to Environment, Human Resource Environment, Strategic HRM, Strategic Management Process, Organisational and Human Resource Strategies, HR as Distinctive Competitive Advantage. Job Analysis, Team Analysis and Flexible Job Environment: Job Design, Job Analysis, Job Descriptions, Job Specification, Uses of Job Analysis, Team Design and Analysis, Flexible Job Environment.

UNIT – II

[10Hours]

Human Resource Planning: Introduction, Integration of Strategic Planning and Human Resource Planning, HRP at Different Levels, Process of Human Resource Planning, Control and Review Mechanism. Recruitment: Introduction, Strategic Management and Recruitment, Sources of Recruitment, Recruitment Techniques, Assessment of Recruitment Programme. Selection, Placement and Induction: Introduction, Selection, Selection Procedure, Placement, Induction.

UNIT – III

[10Hours]

Human Resource Development: Significance of HRD, The Concept of HRD, Scope of HRD, Need of HRD, HRD Objectives, HRD Framework, Functions of HRD managers, Attributes of HRD Managers. Performance Appraisal and Development: Introduction, Strategic Management and Performance Appraisal; Meaning, Need and Purpose of Performance Appraisal and Development; Performance Evaluation to Performance Analysis and Development, Methods of Performance Appraisal, System of Performance Appraisal, The Appraisal Interview, Managerial Appraisal, Use of Performance Appraisal, Problems of Performance appraisal.

UNIT – IV

[10Hours]

Employee Training: Meaning, Importance, Need, Objectives, Stages of Training, Special Aspects of Training. Career Planning and Development: Elements of Career Development Programmes, Steps in Career Development System, Career Development and Diversity Management, Advantages, Limitations and Suggestions, Counseling.

UNIT – V

[10Hours]

Internal and External Mobility and Retention Management: Internal Mobility, Promotions, Transfer, Demotions, Absenteeism, External Mobility, Retention Management. Motivation: Meaning, Types, Steps, Theories; Leadership:- Theories-Trait, Behaviour, Modern, Leadership styles; Communication: Meaning, Purpose, Importance, Process, MIS and IT, Oral, Written, Non-Verbal, Channel, Network, Inter-Personal, Listening, Organisational Communication, Informal Communication, Barriers to Communication, Effectiveness.

References Books:

1. P. Subba Rao, “Essentials of Human Resource Management and Industrial Relations”, Himalaya Publishing House, 3rd Revised and Enlarged Edition, 2011.
2. Robert L. Mathis and John H. Jackson, “Human Resource Management”, Thomson Publication, 13th Edition, 2012.
3. Gary Dessler, “Human Resource Management”, Pearson Education, 9th Edition.

5MCA2:INFORMATION AND NETWORK SECURITY

UNIT – I [12 Hours]

Network Security Fundamentals: Introduction, Computer Security Concepts, The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms, A Model for Network Security, Standards. Symmetric Encryption and Message Confidentiality: Symmetric Encryption Principles, Symmetric Block Encryption Algorithms, Random and Pseudorandom Numbers, Stream Ciphers and RC4, Cipher Block Modes of Operation.

UNIT – II [10 Hours]

Public-Key Cryptography and Message Authentication: Approaches to Message Authentication, Secure Hash Functions, Message Authentication Codes, Public-Key Cryptography Principles, Public-Key Cryptography Algorithms, Digital Signatures.

UNIT – III [10 Hours]

Key Distribution and User Authentication: Symmetric Key Distribution Using Symmetric Encryption, Kerberos, Key Distribution Using Asymmetric Encryption, X.509 Certificates, Public-Key Infrastructure, Federated Identity Management. Transport-Level Security: Web Security Considerations, Secure Socket Layer and Transport Layer Security, Transport Layer Security, HTTPS, Secure Shell (SSH).

UNIT – IV [10 Hours]

Wireless Network Security: IEEE 802.11 Wireless LAN Overview, IEEE 802.11i Wireless LAN Security, Wireless Application Protocol Overview, Wireless Transport Layer Security, WAP End-to-End Security. Electronic Mail Security: Pretty Good Privacy, S/MIME, DomainKeys Identified Mail. IP Security: IP Security Overview, IP Security Policy, Encapsulating Security Payload, Combining Security Associations, Internet Key Exchange, Cryptographic Suites.

UNIT – V [10 Hours]

Intruders: Intruders, Intrusion Detection, Password Management, Malicious Software: Types of Malicious Software, Viruses, Virus Countermeasures, Worms, Distributed Denial of Service Attacks. Firewalls: The Need for Firewalls, Firewall Characteristics, Types of Firewalls, Firewall Basing, Firewall Location and Configurations.

References Books:

1. William Stallings, “Network security Essentials: Applications and Standards”, Pearson Education, 4th Edition, 2011.
2. William Stallings, “Cryptography and Network Security”, Pearson Education.
3. Kaufman Perlman and Speciner, “Network Security”, PHI Publications.

5MCA3:INTERNET TECHNOLOGY

UNIT - I [12 Hours]

Introduction to Web Technology, HTML, Basic Tags, CSS, Table and Forms. Introduction to JavaScript, Variables, Operators, Data Type Conversions, functions, Control Structure, Date Time functions and Form Manipulation. MYSQL – Introduction about Database, Data Types, DML, DDL, Aggregate functions, Data Time functions, Stored Procedure, Sub query and join.

UNIT - II [10 Hours]

PHP-Introduction to PHP, History, Web Brower, Web Server, Xampp, Installation and Configuration files. Syntax, Operators, Variables, Constants, Control, Structure, Language construct and functions Function – Syntax, Arguments, Variables, References, Returns and

Variable Scope. Arrays-Enumerated Arrays, Associative array, array iteration, Multi-dimensional array, Array function and SPL Date and Time functions.

UNIT - III [10 Hours]

OOP's – Instantiation, Modifiers, Inheritance, Interfaces, Exceptions, Static Methods and Properties, Auto load, Reflection, Type Hinting and Class Constance. String and Patterns-Quoting, Matching, Extracting, Searching, Replacing and Formatting.

UNIT - IV [10 Hours]

Web Features- Sessions, Forms, GET and POST data, Cookies, HTTP Headers.

Database Programming. Streams and Network Programming- Files, Reading , Writing, File System functions, Streams File Uploading and File Downloading

UNIT - V [10 Hours]

Ajax Basics, Sending data to PHP with Ajax. Prototype- Utility functions, Ajax object and Form Object. Smarty- variables, Variable Modifiers, Built-in Functions, custom functions, Config files, Joomla. CakePHP - MVC Overview, Naming Conversions, Model, View, Controller, Helpers, Scaffolding an Data Validation, Security, Web Services

Reference Books:

1. Robert W Sebesta, "Programming the World Wide Web", 4th Edition, Pearson Education, 2008.
2. M.Deitel, P.J.Deitel, A.B.Goldberg, "Internet & World Wide Web How to program", 3rd Edition, Pearson Education / PHI, 2004.
3. Chris Bates, "Web Programming Building Internet Applications", 3rd Edition, Wiley India, 2006.
4. Xue Bai et al, "The Web Warrior Guide to Web Programming", Thomson, 2003.
5. Sklar, "The Web Warrior Guide to Web Design Technologies", 1st Edition, Cengage Learning India.

5MCA6: INTERNET PROGRAMMING AND UNIX LAB

1. Write a Unix program to Copy a file without using built in command.
2. Write a Unix program to create 5 child processes and kill these processes in both orders (Ascending & Descending) .
3. Write a Unix program to store data in a file and compress it without using built in command.
4. Write a Unix program to control the process and assign security.
5. Write a Unix program to create two directories and store ten files in one directory using file related commands to transfer all files to other directory.
6. Write a program to demonstrate IPC (Inter process communication) using pipes.
7. Write a program to implement the following commands : EXEC, FORK, EXIT, WAIT.
8. Write a program to demonstrate any four signals and interrupts.
9. Write a program to display a given number in terms of words (eg: 1234 one two three four) using switch.
10. Write a program to implement the following commands: write, read, wall, grep,chmod.
11. Create a webpage with all types of Cascading Style Sheets.

12. Develop and demonstrate a XHTML file that includes Javascript script to display the position in the given string of the left most vowel
13. Create a webpage to find the factorial of a given number using XHTML and Javascript.
14. Create a Login Webpage with Validation using Javascript.
15. Create a Webpage to retrieve the Student details according to the register number chosen from the combo box.

5MCA7: SOFTWARE ENGINEERING LAB

The students are supposed to develop a mini – project. The students can do the project in a team consisting of not more than Two students. The entire project to be submitted by each team should be done with some open source RDBMS along with any other Tools.

ELECTIVES

5E1: ARTIFICIAL INTELLIGENCE

- UNIT-I [12 Hours]
Introduction to Artificial Intelligence: Definition. AI Applications, AI representation. Properties of internal Representation, Heuristic search techniques. Best first search, mean and end analysis, A* and AO* Algorithm. Minimize search procedure, Alpha beta cutoffs, waiting for Quiscent, Secondary search.
- UNIT-II [10 Hours]
Knowledge representation using predicate logic: predicate calculus, Predicate and arguments, ISA hierarchy, frame notation, resolution, Natural deduction. Knowledge representation using non monotonic logic: TMS (Truth maintenance system), statistical and probabilistic reasoning, fuzzy logic, structure knowledge representation, semantic net, Frames, Script, Conceptual dependency.
- UNIT-III [10 Hours]
Planning: block world, strips, Implementation using goal stack, Non linear planning with goal stacks, Hierarchical planning, list commitment strategy. Perception: Action, Robot Architecture, Vision, Texture and images, representing and recognizing scenes, waltz algorithm, Constraint determination, Trihedral and non trihedral figures labeling.
- UNIT-IV [10 Hours]
Learning: Learning as induction matching algorithms. Failure driver learning, learning in general problem solving concept learning. Neural Networks: Introduction to neural networks and perception-qualitative Analysis only, neural net architecture and applications.
- UNIT-V [10 Hours]
Natural language processing and understanding and pragmatic, syntactic, semantic, analysis, RTN, ATN, understanding sentences. Expert system: Utilization and functionality, architecture of expert system, knowledge representation, two case studies on expert systems.

References Books:

1. E. Charnaik and D. McDermott, " Introduction to artificial Intelligence", Pearson Education, 1992.
2. Dan W. Patterson, "Introduction to Artificial Intelligence and Expert Systems", PHI, 2003.

3. E. Rich and K. Knight, "Artificial Intelligence", Tata McGraw Hill.2003.
4. Nils J. Nilson, "Principles of Artificial Intelligence", Narosa Publishing Co. 2002.

5E2: SIMULATION AND MODELING

- UNIT – I [12 Hours]
Concepts of a system and its types, System environment, System modeling, Physical models, mathematical models, Distributed Lag model, Cobweb model, Numerical Computation Technique for Continuous and Discrete models.
- UNIT – II [10 Hours]
Continuous system Models, Interactive System, Hybrid system, Feedback system, Real-Time simulation, Simulation of Autopilot, Simulation of pure pursuit problem, Simulation of Water reservoir system
- UNIT – III [10 Hours]
Discrete system Simulation- Discrete events, Representation of time, Generation of Arrival Patterns, Simulation of a Telephone System, Delayed Calls, Simulation Programming Tasks, Gathering Statistics, Counters and Summary Statistics, Measuring Utilization and Occupancy, Recording Distribution and Transit Times
- UNIT – IV [10 Hours]
Queuing Models- Characteristics of Queuing Systems, Queuing Notation, Long Run Measures of Performance of Queuing Systems, Steady State Behavior of Infinite-Population Markovian Models, Steady-State Behavior of Finite-Population Models, network Queues
- UNIT – V [10 Hours]
Introduction to GPSS, General description, Action Times, Succession of Events, Choice of Paths, Simulation of Manufacturing shop, Analysis of Simulation Output- Nature of the Problem, Estimation methods, Simulation Run Statistics, Replication of Runs, Elimination of Initial Bias, Batch means, Regenerative Techniques, Time series analysis, Spectral analysis, autoregressive Process

Reference Books:

1. Geoffrey Gordon: "System Simulation", Second Edition, Prentice-Hall of India, 2004
2. Jerry Banks, John S Carson, II Barry L Nelson, David M. Nicol: "Discrete-Event System Simulation", Third Edition, Prentice-Hall of India, 2004
3. NarsinghDeo: "System Simulation with Digital Computer", Prentice-Hall of India, 2004.

5E3: PARALLEL AND DISTRIBUTED COMPUTING

- UNIT – I [12 Hours]
Motivation for Parallelism: Parallel Computing, Speed Up, Moore's Law, Grand Challenge Problems, Trends; Parallel and Distributed Computers: Flynn's Taxonomy, Distributed Memory Multicomputers, Shared Memory Multiprocessors, Networks of Workstations, Cluster and Grid Computing; Message Passing Computing: Process Creation, Message Passing Routines, Point-to-Point, Collective Communication; MPI and PVM: MPI Model of Computation, Basic Concepts, Message Passing Routines, Point-to-Point, Collective Communication, Comparison of MPI and PVM;
- UNIT – II [10 Hours]
Performance Measures: Granularity, Speed Up, Efficiency, Cost, Amdahl's Law, Gustafson's Law, Isoefficiency; Analysis of Parallel Programs: Parallel Computation Models, PRAM, Modeling Communication, Cluster Cost Model; Introduction:

Techniques;EmbarassinglyParallel Computations: Low Level Image Processing, Mandelbrot Set, Monte Carlo Methods; Simple Data Partitioning: Sum of Numbers, Bucket Sort, Numerical Integartion, N-Body Problem;

UNIT – III [10 Hours]

Divide-and-Conquer: Sum of Numbers, Merge Sort, Adaptive Quadrature, Barnes-Hut Algorithm; Pipelined Computations: Type 1, 2 and 3 Pipelines, Sum of Sequence, Insertion Sort, Prime Number Generation, Back Substitution;

UNIT – IV [10 Hours]

Scheduling and Load Balancing;List Scheduling, Static Load Balancing, Dynamic Load Balancing, Moore's Algorithm; Synchronous Computations: Data Parallel Programming, Global and Local Synchronization, Solving Linear Equations, Cellular Automata; Shared Memory Programming: Threads, Compiler Directives, OpenMP;

UNIT – V [10 Hours]

Introduction: Algorithms and Applications;Sorting Algorithms: Rank Sort, Compare and Exchange, Bubble Sort, Quicksort, BitonicMergesort; Numerical Algorithms: Matrix Algorithms, Solving Linear Equations, Gaussian Elimination;JacobiIteration;Image Processing: Low Level Image Procesing, High Level Image Procesing, Fourier Transform;

Reference Books:

1. Barry Wilkinson and Michael Allen, “Parallel Programming: Techniques and Applications Using Networked Workstations and Parallel Computers”, 2nd Edition, Prentice Hall PTR, 2004.
2. Michael J. Quinn, “Parallel Programming in C with MPI and OpenMP”, McGraw Hill, 2004
3. A. Grama, A. Gupta, G. Karypis and V. Kumar, “Introduction to Parallel Computing , 2nd Edition, Addison Wesley, 2002.

5E4: E-COMMERCE

UNIT – I [12 Hours]

Electronic Commerce Framework, Electronic Commerce and media Convergence, The Anatomy of E-commerce Applications.Architectural Framework for Electronic Commerce, World Wide Web as the Architecture, Web Background : Hypertext publishing, Security and the Web. Client-Server Network Security, Emerging Client-Server Security Threats, Firewalls and Network Security, Data and Message Security, Digital signatures, Encrypted Documents and Electronic Mail : PGP and PEM.

UNIT – II [10 Hours]

Legal, Ethical and other public policy issues related to Electronic Commerce : Protecting privacy, protecting Intellectual property, Copyright, trademarks and patents, Taxation and encryption policies.

UNIT – III [10 Hours]

Consumer oriented Electronic commerce : Consumer oriented applications, Mercantile process models, Mercantile models from the Consumer’s perspective-Mercantile models from the Merchant perspective.

UNIT – IV [10 Hours]

Types of Electronic Payment Systems, Authentication, Digital Token- Based Electronic Payment Systems, Electronic cards and Electronic payment Systems, Credit Card-Based Electronic Payment Systems, Risk and Electronic payment Systems.

UNIT – V

[10 Hours]

Designing Electronic Payment Systems, Electronic Data Interchange, EDI Applications in Business, EDI : Legal, Security and Privacy Issue, EDI and Electronic Commerce.

Reference Books:

1. Ravi Kalakota, “Andrew B. Whinston : Frontiers of Electronic Commerce”, Pearson Education, 2003.
2. EfraimTurbon, Jae Lee, David King, Chung, “Electronic Commerce- A Managerial Perspective”, Prentice-Hall International.4th Edition, 2006.
3. Greenstein, Feinman, “ Electronic Commerce”, Tata McGraw-Hill, 2003.



FOR QUALITY & EXCELLENCE
IN HIGHER EDUCATION
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BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

**MASTER OF COMPUTER APPLICATIONS
(MCA)**

I to VI Semesters

(Choice Based Credit System –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-15 and onwards

**MCA PROGRAMME
JNANABHARATHI CAMPUS
BANGALORE UNIVERSITY, BANGALORE**

BANGALORE UNIVERSITY

Regulations of Master of Computer applications (MCA) Course

- 1 **TITLE OF THE COURSE:** The course shall be called MCA – Master of Computer Applications.
- 2 **DURATION OF THE COURSE:** The course of study shall be three years.
- 3 **ELIGIBILITY FOR ADMISSION:** A candidate with any degree of a minimum of 3 years duration (10+2+3) of Bangalore university or of any other University equivalent there in to with a minimum of 50% of marks in the aggregate of all subjects including languages, if any, provided further, that the candidate has studied mathematics / Computer science /Business Mathematics / Statistics / Computer Applications / Electronics as a subject at PUC level or equivalent HSC (XII Standard) or at Degree level is eligible for admission to MCA Course. Relaxation to SC/ST, Group I be extended as per University norms.
- 4 **ATTENDANCE:** In each Semester a candidate should be considered to have successfully undergone the prescribed Course of study if the candidate has attended at least 75% of the classes in each subject (Theory, Lab & Practical).
- 5 **SCHEME OF EXAMINATION:**
 - A The Internal Assessment marks should be decided for each of the theory subjects by conducting 2 tests, each of 60 minutes duration, spread over the span of a Semester. A seminar should also be given by the student in the third year and the same to be assessed and evaluated for internal assessment along with the two tests.
 - B The Internal Assessment marks in Practical course is based on the performance in the Laboratory. The Internal Assessment marks for Project work of a candidate is based on the dissertation Seminar.
- 6 **ELIGIBILITY TO GO TO THE HIGHER SEMESTER:**
 - A A Candidate is allowed to carry over all the previous unleared (failed) theory papers and Practicals to subsequent semesters from the first to sixth semester.
 - B The maximum period for completion of the course shall be six years from the date of admission.
- 7 **MINIMUM FOR PASS AND DECLARATION OF RESULTS**
 - A For a pass in a semester, a candidate shall secure a minimum of 40% of the marks prescribed for a subject in the University Examination (Theory, Practical, Project work) and 50% of the marks in the aggregate inclusive of the Internal Assessment marks obtained in all subjects put together.
 - B The candidates who do not satisfy 7(a) shall be deemed to have failed and have to take exams in the subjects in which he has secured less than 40% at the University examination.

- C Provision is made for rejection of results of all the subjects of a Semester only once, if the candidate decides to reappear for all the subjects of that semester. Such rejection should be made within 30 days of announcement of result, by making a written application, through the Head of the Institution. If such rejection is in respect of the results of all the subjects of one semester and earn fresh Internal marks as well.
- D The results of any semester will be declared as pass or fail as the case may be in accordance with regulation 7(a).
- E To be eligible for the award of the MCA degree, a candidate shall have completed the scheme of training and passed in all subjects prescribed for the Course
- F Further to regulation 7(a), the classification followed by the University for all PG courses shall be made applicable for the declaration of results of each Semester.

8 **CLASSIFICATION OF RESULT FOR THE MCA COURSE AND DECLARATION OF RANKS:**

Further to regulations 7(a) and 7(f), the names of all successful candidates securing First Class with Distinction and First Class in the First attempt shall be arranged in the order of Merit and only first FIVE Ranks shall be declared.

- 9 A candidate shall complete examinations of all Semesters of MCA Course within - SIX years from the date of admission

SCHEME OF STUDY AND EXAMINATION FOR MASTER OF
COMPUTER APPLICATIONS (MCA)

Sem	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
				IA	Exam	Total	Subject	Sem
I	MCA101T	Problem Solving Techniques using C	4	30	70	100	4	24
	MCA102T	Accounting and Financial Management	4	30	70	100	4	
	MCA103T	Digital Electronics and Microprocessor	4	30	70	100	4	
	MCA104T	Discrete Mathematics	4	30	70	100	4	
	MCA105P	C Programming Lab	8	30	70	100	4	
	MCA106P	Accounting Lab	8	30	70	100	4	
II	MCA201T	Data Structures	4	30	70	100	4	24
	MCA202T	Database Management System	4	30	70	100	4	
	MCA203T	Computer Networks	4	30	70	100	4	
	MCA204T	Operating System	4	30	70	100	4	
	MCA205P	Data Structures Lab	8	30	70	100	4	
	MCA206P	DBMS Lab	8	30	70	100	4	
III	MCA301T	File Structures	4	30	70	100	4	26
	MCA302T	Object Oriented Analysis and Design using UML	4	30	70	100	4	
	MCA303T	Theory of Computation	4	30	70	100	4	
	MCA304T	Statistical Analysis	4	30	70	100	4	
	MCA305P	File Structures Lab	8	30	70	100	4	
	MCA306P	Object Oriented Analysis and Design using UML Lab	8	30	70	100	4	
	MCA307T	Soft Core – Quantitative, Teaching and Research Aptitude	3	30	70	100	2	
IV	MCA401T	Advanced Java Programming	4	30	70	100	4	26
	MCA402T	Advanced Algorithms	4	30	70	100	4	
	MCA403T	Advanced Software Engineering	4	30	70	100	4	
	MCA404T	Quantitative Techniques	4	30	70	100	4	

	MCA405P	Advanced Java Programming Lab	8	30	70	100	4	
	MCA406P	Advanced Algorithms Lab	8	30	70	100	4	
	MCA407T	Soft Core – Soft Skills and Personality Development	3	30	70	100	2	
V	MCA501T	Advanced Web Programming	4	30	70	100	4	24
	MCA502T	Advanced Database Management Systems	4	30	70	100	4	
	MCA503T	Artificial Intelligence	4	30	70	100	4	
	MCA504T	Open Elective	4	30	70	100	4	
	MCA505P	Advanced Web Programming Lab	8	30	70	100	4	
	MCA506P	Mini Project	8	30	70	100	4	
VI	MCA601T	Elective – I	4	30	70	100	4	16
	MCA602T	Elective – II	4	30	70	100	4	
	MCA603P	Main Project	16	150	250	400	8	

Students have to choose any two Electives from the given list in the Sixth semester.

1. Software Testing
2. e-Governance
3. Data Mining
4. Big Data Analytics
5. Cloud Computing
6. Parallel Algorithms
7. Image processing
8. Mobile Computing
9. Compiler Design
10. TCP / IP
11. Storage Area Network
12. Multimedia Communication
13. Distributed Operating Systems

FIRST SEMESTER MCA

MCA101T: PROBLEM SOLVING TECHNIQUES USING C

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I

[12 Hours]

Introduction to Programming Concepts: Software, Classification of Software, Modular Programming, Structured Programming, Algorithms and Flowcharts, Writing algorithms and drawing flowcharts for simple exercises. Overview of C Language: History of C, Character set, C tokens, Identifiers, Keywords, structure of C program, executing a C program. Constants, variables, data types, declaration of variables, declaration of storage classes, assigning values to variables defining symbolic constants, declaring a variable as constant, declaring a variable as volatile, overflow and underflow of data, Operators in C, Hierarchy of Operators, Expressions, Type Conversions and Library Functions.

UNIT – II

[10 Hours]

Managing Input and Output Operations: The scanf() & printf() functions for input and output operations, reading a character, writing a character, (the getchar() & putchar() functions) , the address operator(&), formatted input and output using format specifiers, Writing simple complete C programs. Control Statements: Decision making with if statement, simple if statement, the if else statement, nesting of if else statements, the else If ladder, the switch statement, the?: operator, the goto statement, the break statement, programming examples. Loop Control Structures: The while statement, the do While statement, the for statement, nested loops, jumps in loops, the continue statement, programming examples.

UNIT – III

[10 Hours]

Functions: Function Definition, prototyping, types of functions, passing arguments to functions, Nested Functions, Recursive functions. Arrays: Declaring and Initializing, One Dimensional Arrays, Two Dimensional Arrays, Multi Dimensional Arrays - Passing arrays to functions. Strings: Declaring and Initializing strings, Operations on strings, Arrays of strings, passing strings to functions. Storage Classes - Automatic, External, Static and Register Variables.

UNIT – IV

[10 Hours]

Structures and Unions: Defining a structure, declaring structure variables, accessing structure members, structure initialization, copying and comparing structure variables, operations on individual members, array of structures, structures within structures, structures and functions, Unions, size of structures, bit fields, programming examples. Pointers: Understanding pointers, accessing the address space of a variable, declaring and initialization pointer variables, accessing a variable through its pointer, chain of pointers, pointer expressions, pointers and arrays, pointer and character strings, array of pointers, pointer as function arguments, functions returning pointers, pointers to functions, pointers and structures, programming examples

UNIT – V

[10 Hours]

File Management in C: Defining and opening a file, closing a file, input/output operations on files, error handling during I/O operations, random access files, command line arguments, programming examples. Dynamic Memory Allocation: Dynamic memory allocation, allocating a block of memory: malloc, allocating multiple blocks of memory: calloc, releasing the used space: Free, altering the size of a block: realloc, programming examples. The Preprocessor: Introduction, macro substitution, files inclusion, compiler control directives, ANSI additions, programming exercises.

Reference

1. E. Balaguruswamy, “Programming in ANSI C”, 4th Edition, TMH Publications, 2007.
2. Ashok N. Kamthane, “Programming with ANSI and Turbo C”, Pearson Education, 2006.
3. Mahapatra, “Thinking In C”, PHI Publications, 1998.
4. Yashwant Kanetkar, “Let Us C”, 13th Edition, PHP, 2013.

MCA102T: ACCOUNTING AND FINANCIAL MANGEMENT

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I [12 Hours]

Accounting: Principles, concepts and conventions, double entry system of accounting, Introduction to basic books of accounts of sole proprietary concern, closing of books of accounts and preparation of trial balance. Final Accounts: Trading, Profit and Loss accounts and Balance Sheet of sole proprietary concern (Without adjustments).

UNIT - II [10 Hours]

Company accounts: features of company, types of companies advantages of companies, types of shares and debentures. Preparation of Final accounts of companies. (simple problems only).

UNIT - III [10 Hours]

Financial Management: Meaning, scope and role, A brief study of functional areas of financial management. Introduction to Various FM Tools: Financial statement analysis. Common size and comparative statement analysis of income and balance sheets

UNIT - IV [10 Hours]

Ratio Analysis, Fund flow statement & Cash flow statement.

UNIT - V [10 Hours]

Introduction to Cost Accounting: Nature, Importance & Basic Principles. Brief Introduction to methods of Costing & Elements of Cost, Unit Costing.

Reference

1. Ramachandran, "Financial Accounting for Managers", Tata McGraw Hill – 2005
2. I.M. Pandey, "Financial Management", Vikas Publications, 2003
3. Neeraj Sharma "Computerized Accounting & Business Systems", Kalyani Publishers, 2004
4. V.R Palanivelu " Accounting for Management" University Science Press 2013.

MCA103T: DIGITAL ELECTRONICS AND MICROPROCESSOR

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction to Number Systems: Positional and non-positional, Base/ Radix. Decimal number system, Binary number system, Octal Number System and Hexadecimal Number System, Conversion from one System to another System. Binary addition, subtraction, multiplication and division. 1's and 2's complement – 2's complement subtraction. Binary codes: BCD numbers, 8421 code, 2421 code- examples and applications. Gray code- Conversions- Gray to binary and Binary to Gray, application of gray code. Excess – 3 code - Self complementing property and applications. Boolean algebra: - Laws and Theorems. AND, OR, NOT Laws, Commutative law, Associative law, Distributive law, Duality theorem. Demorgan's theorems – Statements, proof using truth tables; Simplification of Boolean expressions using Boolean laws. Definition of product term, sum term, min term, max term, SOP, standard SOP, POS and Standard POS. Conversion of Boolean expression to Standard SOP and Standard POS forms.

UNIT – II [10 Hours]

Karnaugh maps- Definition of Karnaugh map, K- map for 2, 3 and 4 variables. Conversion of truth tables into k-map, grouping of cells, redundant groups and don't care conditions. Karnaugh map technique to solve 3 variable and 4 variable expressions. Simplification of 3 and 4 variable Boolean expression using K-maps. AND Gate, OR Gate, NOT Gate, NAND Gate and NOR Gate - Definition, Symbol, Expression, Truth Table. Combinational logic circuits: Definition, applications. Half Adder: Symbol, Logic circuits using XOR and basic gates, Truth table. Full Adder: Symbol, Logic circuits using XOR and basic gates, Truth table.

UNIT – III [10 Hours]

Sequential circuit design: Latches, SR Flip Flops, concept of edge triggering, D- flip flop, JK- flip flop, Master slave flip flop, T- flipflop, Registers, shift Registers, asynchronous and synchronous counters, Mod 10 – counter. Introduction to Microprocessor: Introduction, Applications, Basic block diagram, speed, word size, memory capacity, classification of Microprocessors (mention of different microprocessors). 8086 Architecture and programming: 8086 Architecture and programming model, registers, flags, memory segmentation, pin description, odd & even bank of memory, Bus buffering, latching, timing diagrams, wait state, MIN/MAX modes of operation.

UNIT – IV [10 Hours]

Addressing modes: Immediate addressing, register addressing, memory addressing, indexed addressing with displacement, I/O port addressing. 8086 Instructions: Instruction template for 8086 instructions, code generation using template. Data Transfer Instruction: Move data to register/memory from register/memory/immediate data, data transfer between a segment register and register/memory, PUSH and POP, exchange, data transfer with I/O ports.

UNIT – V

[10 Hours]

Data Conversion instructions: XLAT, LEA, LDS, LES, LAHF and SAHF instructions. Arithmetic Instructions: Add, subtract, negate, compare, CBW, CWD, multiply and divide instructions. Logical Instructions: AND, OR, EX-OR, Test, NOT, ROTATE and shift instructions. Process Control Instructions: Instructions to set/reset flags, halt, wait, lock, prefix and escape to co-processor instructions. String Instructions: CMPS, MOVS, LODS, STOS, and SCAS instructions. Branch Instructions: JMP, conditional jump, LOOP, LOOPE, LOOPNE, JCXZ, CALL, RET. Assembly language programming: Assembly language programming examples, subroutines and macros, examples. Interrupts of 8086: Hardware interrupt, software interrupt and exception, priority of interrupts

Reference

1. *Thomas L Floyd, "Digital Fundamentals", Pearson Prentice Hall, 9th Edition, 2006.*
2. *M Morris Mano, "Digital Logic and Computer Design, Pearson, 10th Edition, 2008.*
3. *Tokheim, "Digital Electronics Principles and Applications, McGraw Hill, 6th Edition, 2004.*
4. *Barry B. Brey, "The Intel Microprocessors", Pearson Prentice Hall, 8th Edition, 2009.*
5. *Ramesh S. Gaonkar, "Microprocessor Architecture, programming and Applications", New Age International Pvt Ltd Publishers, 2nd Edition, 1995.*

MCA104T: DISCRETE MATHEMATICS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Set Theory: Sets and Subsets, Set Operations and the Laws of Set Theory, Counting and Venn Diagrams, Cartesian Products and Relations, Functions–One-to-One, Onto Functions, Function Composition and Inverse Functions; Properties of Relations, Computer Recognition – Zero-One Matrices and Directed Graphs, Partial Orders – Hasse Diagrams, Equivalence Relations and Partitions.

UNIT – II [10 Hours]

Fundamentals of Logic: Proposition, Logical Connectives and Truth Tables, Logic Equivalence – The Laws of Logic, Logical Implication – Rules of Inference; The Use of Quantifiers, Quantifiers, Definitions and the Proofs of Theorems

UNIT – III [10 Hours]

Mathematical Induction and Recursion: Sequences and summations, Mathematical Induction, The Well Ordering Principle, Recursive Definitions, Structural Induction, Recursive algorithms. Counting: Basics of counting, Pigeonhole Principle, Permutation and Combinations, Binomial coefficients.

UNIT – IV [10 Hours]

Discrete Probability: Introduction, Probability Theory, Expected value and Variance. Advanced Counting Techniques: Recurrence relations and its solutions, Generating functions, Inclusion – Exclusion and its applications Relations: Introduction, n-ary relations and applications, Representing relations, Closures of Relations, Equivalence Relations, Partial Orderings

UNIT – V [10 Hours]

Graphs: Introduction, Representing Graphs & Graph Isomorphism, Connectivity, Euler and Hamilton Paths, Shortest path problems, Planar Graphs, Graph colouring. Trees: Introduction, Applications of Trees, Tree Traversal, Spanning Trees, Minimum Spanning Trees.

Reference

1. *Ralph P. Grimaldi, "Discrete and Combinatorial Mathematics", 5th Edition, Pearson Education, 2004.*
2. *Kenneth H. Rosen, "Discrete Mathematics and its Applications", 6th Edition, McGraw Hill, 2007.*
3. *Jayant Ganguly, "A Treatise on Discrete Mathematical Structures", SanguinePearson, 2010.*
4. *D.S. Malik and M.K. Sen, "Discrete Mathematical Structures: Theory and Applications", Thomson, 2004.*
5. *Thomas Koshy, "Discrete Mathematics with Applications", Elsevier, 2005, Reprint 2008.*

MCA105P: PROBLEM SOLVING TECHNIQUES USING C LAB

1. Write a C Program to demonstrate all the operators.
2. Write a C Program for electricity bill tacking different Categories of users, different slabs in each category.
3. Write a C Program to find check whether the given number is Prime or not.
4. Write a menu driven C Program to find the factorial of number (a) Without function (b) Using non-recursive function (c) Using Recursive Function.
5. Write a C Program to check the correctness of the date and compare two dates.
6. Write a C Program to find the sum of its individual digits repeatedly till the result is a single digit.
7. Write a program to enter integer number and find the largest and smallest digit of the number.
8. Write a program to read three digits +ve integer number 'n' and generate possible permutations of number using their digits.
9. Write a C Program to accept a text upto 50 words and perform following actions
 - a) Count total vowels, constants, spaces, sentences and words with spaces.
 - b) Program should erase more than one space between two successive words.
10. Write a C program to enter names of cities and display all the entered names alphabetically.
11. Write menu Driven C Program to calculate to calculate sin, cos and exponential series without using standard library function.
12. Write a C Program to accept array of elements in unsorted order, sort the array and search an element using binary search.
13. Write a C Program to add and multiply two matrices.
14. Write a C Program to display list of C program files and directories.
15. Write a program to use macros as an array and pointer.
16. Write a program to display the attributes of a file using dos interrupt.
17. Write a program to delete a file using dos interrupt.
18. Create user defined data type equivalent to int. Declare three variables of its type. Perform arithmetic operations using these variables.
19. Write a program to read a C program file and count the following in the complete program.
 - a) Total number of statements
 - b) Total number of included files
 - c) Total number of brackets.
20. Write a program to display C Program files in current directory. The user should select one of the files. Convert the file contents in Capital and Display the same on the screen.
21. Write a program to interchange the contents of two files.
22. Write a program to change mouse cursor.

MCA106P: ACCOUNTING AND FINANCIAL MANAGEMENT LAB

1. Accounting software, introduction and installation.
2. Creation of accounts in the name of the trading and non-trading organisations, including alteration and deletion.
3. Creation of accounting groups and ledgers, using single and multiple options.
4. Creation of inventory groups and ledgers.
5. Vouchers, types and vouchers entry.
6. Creation of various accounting Ledgers.
7. Recording of various accounting transactions.
8. Inventory: classification and grouping using single and Multiple options.
9. Recording of inventory information.
10. Purchase order and sales order processing.
11. Correction of ledgers and vouchers using alter option.
12. Generating trial balance, income statement and balance sheet.
13. Displaying Income statement and balance sheet under different options and time periods.
14. Generation of accounting and inventory reports.
15. Printing of ledgers, invoice, cheques and statements.
16. Creation of pay roll records.
17. Recording of Pay roll information and salary statement.
18. Generating statutory reports.
19. Working with different accounting periods.
20. File import and export process.
21. Data protection and safeguard.
22. Practical training on preparation of computerised accounting for computer hardware stores.
23. Practical training on preparation of computerised accounting for a software development company.
24. Training on conversion of Manual accounting to computerised accounting.
25. Practical session on audit under computerised accounting environment.
26. Practical session on audit under computerised accounting environment.

SECOND SEMESTER MCA

MCA201T: DATA STRUCTURES

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction and Overview: Definition, Elementary data organization, Data Structures, data structures operations, Abstract data types, algorithms complexity, time-space tradeoff. Preliminaries: Mathematical notations and functions, Algorithmic notations, control structures, Complexity of algorithms, asymptotic notations for complexity of algorithms. String Processing: Definition, Storing Strings, String as ADT, String operations, word/text processing, Pattern Matching algorithms.

UNIT – II [10 Hours]

Arrays: Definition, Linear arrays, arrays as ADT, Representation of Linear Arrays in Memory, Traversing Linear arrays, Inserting and deleting, Sorting: Bubble sort, Insertion sort, Selection sort, Merge Sort, Quick Sort Searching: Linear Search, Binary search, Multidimensional arrays, Matrices and Sparse matrices.

UNIT - III [10 Hours]

Linked list: Definition, Representation of Singly linked list in memory, Traversing a Singly linked list, Searching a Singly linked list, Memory allocation, Garbage collection, Insertion into a singly linked list, Deletion from a singly linked list; Doubly linked list, Header linked list, Circular linked list.

UNIT – IV [10 Hours]

Stacks: Definition, Array representation of stacks, Linked representation of stacks, Stack as ADT, Arithmetic Expressions: Polish Notation, Conversion of infix expression to postfix expression, Evaluation of Postfix expression, Application of Stacks, Recursion, Towers of Hanoi, Implementation of recursive procedures by stack. Queues: Definition, Array representation of queue, Linked list representation of queues Types of queue: Simple queue, Circular queue, Double ended queue, Priority queue, Operations on Queues, Applications of queues.

UNIT - V [10 Hours]

Graphs: Graph theory terminology, Sequential representation of Graphs: Adjacency matrix, traversing a Graph. Tree – Definitions, Binary trees, Representing binary trees in memory, Traversing Binary Trees, Binary Search Trees, Searching, Inserting and Deleting in a Binary Search Tree, Heap, Heap Sort.

Reference

1. Seymour Lipschutz, "Data Structures with C", Schaum's outLines, Tata McGrawHill, 2011.
2. Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Second Edition, Pearson Education, 2013.
3. Robert Kruse, C.L.Tondo, Bruce Leung, Shashi Mogalla, "Data Structures and Program Design using C", Pearson Education, 2009.
4. Forouzan, "A Structured Programming Approach using C", 2nd Edition, Cengage Learning India, 2008.

MCA202T: DATA BASE MANAGEMENT SYSTEMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I

[12 Hours]

Introduction: Database and Database Users, Characteristics of the Database Approach, Different people behind DBMS, Implications of Database Approach, Advantages of using DBMS, When not to use a DBMS. Database System Concepts and architecture: Data Models, Schemas, and Instances. DBMS Architecture and Data Independence., Database languages and interfaces. The database system Environment, Classification of DBMS.

UNIT - II

[10 Hours]

Data Modelling Using the Entity-Relationship Model: High level conceptual Data Models for Database Design with and example., Entity types, Entity sets, attributes, and Keys, ER Model Concepts, Notation for ER Diagrams, Proper naming of Schema Constructs, Relationship types of degree higher than two. Record Storage and Primary File Organization: Secondary Storage Devices. Buffering of Blocks. Placing file Records on Disk. Operations on Files, File of unordered Records (Heap files), Files of Ordered Records (Sorted files), Hashing Techniques, and Other Primary file Organization.

UNIT - III

[10 Hours]

Functional Dependencies and Normalization for Relational Database: Informal Design Guidelines for Relational schemas, Functional Dependencies, Normal Forms Based on Primary Keys., General Definitions of Second and Third Normal Forms Based on Primary Keys., General Definitions of Second and Third Normal Forms, Boyce-Codd Normal Form. Relational Data Model and Relational Algebra: Relational Model Concepts., relational Model Constraints and relational Database Schema, defining Relations, Update Operations on Relations., Basic Relational Algebra Operations, Additional Relational Operations., Examples of queries in the Relational Algebra., Relational Database design using ER-to-Relational Mapping.

UNIT – IV

[10 Hours]

Relational Database Language: Data definition in SQL, Queries in SQL, Insert, Delete and Update Statements in SQL, Views in SQL, Specifying General Constraints as Assertions, specifying indexes, Embedded SQL. PL /SQL: Introduction.

UNIT - V

[10 Hours]

Transaction Processing Concepts: Introduction, Transaction and System Concepts, Desirable properties of transaction, Schedules and Recoverability, Serializability of Schedules, Transaction Support in SQL, Locking Techniques for Concurrency Control, Concurrency Control based on time stamp ordering.

Reference

1. Ramez Elmasri and Shamkant B. Navathe, “Fundamentals of Database Systems”, 5th Edition, Pearson Education, 2007.
2. Abrahamsi. Silberschatz, Henry. F. Korth, S. Sudarshan, “Database System Concepts” 6th Edition, McGraw Hill, 2012.
3. C.J.Date, “Introduction to database systems”, Eight Edition, Addison Wesley, 2003.

MCA203T: COMPUTER NETWORKS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I

[12 Hours]

Introduction: Growth of computer networking, Complexity in network system, Motivation and Tools: Resource sharing, Growth of the internet, probing the internet, interpreting the ping response, tracing a route. Transmission Media: Copper wires, glass fibers, radio, satellite, Geosynchronous satellites, low earth orbit satellites, Low earth orbit satellite arrays, Microwave, Infrared, Light from a laser. Local Asynchronous Communications: Introduction, the need for asynchronous communications, using electric current to send bits, standards for communication, baud rate, Framing and errors, Half and Full duplex asynchronous communication, the effect of noise on communication. Long distance Communication: Sending signals across long distances, Modem hardware used for Modulations and Demodulation, Leased analog data circuits, optical, radio frequency and dialup Modems, carrier frequencies and Multiplexing, baseband and broadband technologies, wave length division multiplexing, spread spectrum, time division multiplexing

UNIT - II

[10 Hours]

Packets, Frames and Error Detection: Concept of Packets, packets and Time-division Multiplexing, Packets and Hardware Frames, byte Stuffing, transmission errors, Parity bits and Parity checking, error detection, Detecting errors with checksums, detecting errors with CRC, Burst errors, frame formats and error detection mechanism. LAN Technologies and Network Topologies: Direct point-to-point communications, Shared Communications channels, LAN Topologies, Ethernet, Carries sense on CSMA, Collision Detection and Back off with CSMA/CD, Ring Topology and Token Passing, Self-Healing Token Passing Networks, ATM. Hardware addressing and Frame Type Identification: specifying a recipient, How LAN hardware uses addresses to filter packets, format of a physical addresses, broadcasting, Multicast addressing, identifying packet contents, frame headers and frame format.

UNIT - III

[10 Hours]

LAN Wiring, Physical Topology and Interface Hardware: speeds of LANs and computers, Network Interface Hardware, The connection between a NIC and a network, original thick Ethernet wiring, connection multiplexing, thin Ethernet wiring, twisted pair Ethernet, Network interface cards and wiring schemes, categories of wires. Extending LANs: Fiber Optic Extensions, Repeaters, bridges, frame filtering, switching, Long-distance and Local Loop Digital Technologies: Digital telephony, Synchronous communication, SONET, ISDN, Asymmetric Digital Subscriber Line Technology, other DSL technologies, cable modem technology, upstream communication, Broadcast Satellite systems.

UNIT - IV

[10 Hours]

WAN technologies and Routing: Large Networks and Wide Areas, Packet switches, forming a WAN, store and forward, Physical addressing in a WAN, Next-Hop forwarding, Source independence, Routing Table Computation, Shortest path computation in a Graph, distance vector routing, like-state routing, Example of WAN technologies. Network Characteristics: Network ownership, Network performance characteristics, Jitter. Protocols and Layering: the need for protocols, the seven layers, Stacks: Layered Software.

UNIT - V

[10 Hours]

Internetworking: internet architecture, A virtual Network, Layering and TCP/IP protocols. Internet Protocol Addresses, APR, IP Datagram's and Datagram Forwarding, IP Encapsulation, Fragmentation, and Reassembly, IPv6, ICMP, UDP, TCP, Internet routing, DNS, WWW, MAIL.

Reference

1. *Douglas E Comer and M.S.Narayana, "Computer Networks and Internets", 5th edition, Pearson Education, 2013.*
2. *Andrew S.Tanenbaum, "Computer Networks", Fifth Edition, Prentice Hall, 2012*
3. *Behrouz Ferouzan, "Introduction to Data Communications and Networking", TMH, 1999.*
4. *S. Keshav, "An Engineering Approach to Computer Networks", Pearson Education, 2nd Edition, 1999.*

MCA204T: OPERATING SYSTEMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction: Batch Systems, Concepts of Multiprogramming and Time Sharing, Parallel, Distributed and real time Systems, Operating System Structures, Components & Services, System calls, System programs, Virtual machines. Process Management: Process Concept, Process Scheduling, Co – Operating process, Threads, Inter process communication, CPU Scheduling Criteria, Scheduling algorithm, Multiple Processor Scheduling, Real time Scheduling, Algorithm evolution.

UNIT – II [10 Hours]

Process Synchronization and deadlocks: The Critical Section Problem, Synchronization hardware, Semaphores, Classical problems of synchronization, Critical regions, monitors, Dead locks – system model, Characterization, Dead lock prevention, avoidance and detection, Recovery from dead lock, Combined approach to deadlock handling.

UNIT – III [10 Hours]

Memory Management: Logical and Physical address space, Swapping, Contiguous allocation, Paging, Segmentation, Segmentation with paging in Mastics and Intel 386, Virtual memory-Demand paging and it's performance, Page replacement algorithms, Allocation of frames, thrashing, page size and other considerations. Demand Segmentation.

UNIT – IV [10 Hours]

File management (Systems, Secondary Storage Structure): File Concepts, Access methods, Directory Structure, Protection and consistency, File system structure, Allocation methods, Free space management, Directory Implementation, Efficiency and Performance, Recovery. Disk Management (Structure, Disk Scheduling Methods): Disk Structure & Scheduling methods, Disk management, Swap – Space management.

UNIT – V [10 Hours]

Protection and Security: Goals of protection, Domain Protection, Access matrix, Security Problem, Authentication, One time password, program threats, System threads.
Case Study of Windows and Linux Operating System

Reference

1. Abraham Silberschatz and Peter Baer Galvin, "Operating System Concepts", 7th Edition, Pearson Education, 2002.
2. H.M.Deitel, "Operating Systems", Pearson Learning Solutions, 3rd Edition, 2003.
3. William Stallings, "Operating Systems", 6th Edition, Pearson Education, 2010.
4. Stuart, "Operating systems: Principles, Design and Implementation", Cengage Learning India, 1st Edition 2008.

MCA205P: DATA STRUCTURES LAB

1. Write a menu driven program to implement linear and binary search also find the location of its first occurrence
2. Write a menu driven program to sort the array in ascending/descending order using
a) Quick sort b) Merge sort
3. Write a menu driven program to create a linked list and to perform insert and delete operations
4. Write a program to add two polynomials using a linked list/
5. Write a menu driven program to perform insert and delete operations in a circular linked list.
6. Write a menu driven program to perform operations on a stack (linked list implementation)
7. Write a menu driven recursive program to a) find factorial of a given number
b) generate first N terms of a fibonacci sequence c) GCD of three numbers.
8. Write a program to solve the problem of towers of hanoi with 3 pegs and N discs.
9. Write a menu driven program to perform operations on a circular queue (linked list implementation).
10. Write a menu driven program to a) find the length of a string b) concatenate two strings c) to extract a substring from a given string d) finding and replacing a string by another string in a text (Use pointers and user-defined functions)
11. Write a program to convert the given infix expression into its postfix form.
12. Write a program to evaluate the postfix expression with a set of values.
13. Write a menu driven program to create binary tree and to perform insert and delete operations.
14. Write a menu driven program to create a binary search tree and to perform inorder, preorder and postorder traversals
15. Write a program sort the array of N elements using Heap Sort.

MCA206P: DATA BASE MANAGEMENT SYSTEMS LAB

1. Database Customization
2. Creating Databases/Table spaces
3. Create Objects
4. Moving Data
5. Recovery
6. Locking
7. Preparing Applications for Execution using a front end tool
8. Application Performance Tool

The students are supposed to practice and develop a mini application for above mentioned lab. The students can do the activity in a group (team) consisting of not more than 2 students.

The entire application to be submitted by each team should be done with all the above activities. The examiner may ask to perform any of the above acts

THIRD SEMESTER MCA

MCA301T: FILE STRUCTURES

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I

[12 Hours]

Introduction: File Structures: The Heart of the file structure Design, A Conceptual Toolkit; Fundamental File Operations: Physical Files and Logical Files, Opening Files, Closing Files, Reading and Writing, Seeking, Special Characters, The Unix Directory Structure, Physical devices and Logical Files, File-related Header Files, UNIX file System Commands; Buffer Management, Input /Output in UNIX. Fundamental File Structure Concepts, Managing Files of Records: Field and Record Organization, Using Classes to Manipulate Buffers, Using Inheritance for Record Buffer Classes, Managing Fixed Length, Fixed Field Buffers, An Object-Oriented Class for Record Files, Record Access, More about Record Structures, Encapsulating Record Operations in a Single Class, File Access and File Organization.

UNIT – II

[10 Hours]

Organization of Files for Performance, Indexing: Data Compression, Reclaiming Space in files, Internal Sorting and Binary Searching, Key sorting; Index: Introduction, A Simple Index for Entry- Sequenced File, Object-Oriented support for Indexed, Entry-Sequenced Files of Data Objects, Indexes that are too large to hold in Memory, Indexing to provide access by Multiple keys, Retrieval Using Combinations of Secondary Keys. Consequential Processing and The Sorting of Large Files: A Model for Implementing Consequential Processes, Application of the Model to a General Ledger Program, Extension of the Model to include Multi-way Merging, A Second Look at Sorting in Memory, Merging as a Way of Sorting Large Files on Disk.

UNIT – III

[10 Hours]

Multilevel indexing and B-Trees: The invention of B-Tree, Statement of the problem, Indexing with Binary Search Trees; Multi-Level Indexing, B-Trees, Example of Creating a B-Tree, An Object-Oriented Representation of B-Trees, B-Tree Methods; Nomenclature, Formal Definition of B-Tree Properties, Worst-case Search Depth, Deletion, Merging and Redistribution, Redistribution during insertion; B* Trees.

UNIT – IV

[10 Hours]

Indexed Sequential File access and Prefix B+ Trees: Indexed Sequential Access, Maintaining a Sequence Set, Adding a Simple Index to the Sequence Set, The Content of the Index: Separators Instead of Keys, The Simple Prefix B+ Tree and its maintenance, Index Set Block Size, Internal Structure of Index Set Blocks: A Variable-order B- Tree, Loading a Simple Prefix B+ Trees, B-Trees, B+ Trees and Simple Prefix B+ Trees in Perspective.

UNIT – V

[10 Hours]

HASHING: Introduction, A Simple Hashing Algorithm, Hashing Functions and Record Distribution, Collision resolution by progressive overflow, Buckets. How Extendible Hashing Works, Implementation, Deletion, Extendible Hashing Performance, Alternative Approaches.

Reference

1. *Michael J. Folk, Bill Zoellick, Greg Riccardi, "File Structures-An Object Oriented Approach with C++ - , 3rd edition, Addison-Wesley, 1998.*
2. *Raghu Ramakrishan and Johannes Gehrke, "Database Management Systems", 3rd Edition, McGraw Hill, 2003.*
3. *Robert L. Kruse, Bruce P. Leung, Clovis L.Tondo, "Data Structures and Program Design in C" (2nd Edition). Prentice Hall India, 2001.*
4. *Ellis Horowitz, Sartaj Sahni, Susan Anderson-Freed, "Fundamentals of Data Structures, 2007.*

MCA302T: OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction: An overview - Object basics - Object state and properties, Behavior, Methods, Messages. Object Oriented system development life cycle, Benefits of OO Methodology. Overview of Prominent OO Methodologies: The Rumbaugh OMT, The Booch methodology, Jacobson's OOSE methodologies, Unified Process, Introduction to UML, Important views & diagram to be modelled for system by UML. Factional View (models): Use case diagram - Requirement Capture with Use case - Building blocks of Use Case diagram - actors, use case guidelines for use case models - Relationships between use cases - extend, include, generalize. Activity diagram - Elements of Activity Diagram - Action state, Activity state, Object, node, Control and Object flow, Transition (Fork, Merge, Join) - Guidelines for Creating Activity Diagrams - Activity Diagram - Action Decomposition (Rake) - Partition - Swim Lane.

UNIT – II [10 Hours]

Static structural view (Models): Classes, values and attributes, operations and methods, responsibilities for classes, abstract classes, access specification (visibility of attributes and operations). Relationships among classes: Associations, Dependencies. Inheritance - Generalizations, Aggregation. Adornments on Association: association names, association classes, qualified association, n-ary associations, ternary and reflexive association. Dependency relationships among classes, notations. Notes in class diagram, Extension mechanisms, Metadata, Refinements, Derived, data, constraint, stereotypes, Package & interface notation. Object diagram notations and modeling, relations among objects (links).

UNIT – III [10 Hours]

Class Modeling and Design Approaches: Three approaches for identifying classes - using Noun phrases, Abstraction, Use Case Diagram - Comparison of approaches - Using combination of approaches - Flexibility guidelines for class diagram: Cohesion, Coupling, Forms of coupling (identity, representational, subclass, inheritance), class Generalization, class specialization versus aggregation. Behavioral (Dynamic structural view): State diagram - State Diagram Notations, events (signal events, change events, Time events) - State Diagram states (composite states, parallel states, History states), transition and condition, state diagram behaviour (activity effect, do-activity, entry and exit activity), completion transition, sending signals.

UNIT – IV [10 Hours]

Interaction diagrams: Sequence diagram - Sequence diagram notations and examples, iterations, conditional messaging, branching, object creation and destruction, time constraints, origin of links, Activations in sequence diagram - Collaboration diagram - Collaboration diagram notations and examples, iterations, conditional messaging, branching, object creation and destruction, time constraints, origin of links, activations in sequence diagram. Approaches for developing dynamic systems: Top - down approach for dynamic systems - Bottom - up approach for dynamic systems - Flexibility Guidelines for Behavioral Design - guidelines for allocating and designing behaviors that lead to more flexible design.

UNIT – V

[10 Hours]

Architectural view: Logical architecture: dependency, class visibility, sub systems - Hardware architecture: deployment diagram notations, nodes, object migration between node - Process architecture: what are process and threads and their notations in UML, object synchronization, invocation schemes for threads (UML notations for different types of invocations). Implementation architecture: component diagram notations and examples. Reuse: Libraries, Frame works components and Patterns: Reuse of classes, Reuse of components, Reuse of frameworks, black box framework, white box frame, Reuse of patterns: Architectural pattern and Design pattern.

Reference

1. Charles Richter, “*Designing Flexible Object Oriented systems with UML*” , Macmillan Technical, 1999
2. Jackson, Burd Thomson, “*Object Oriented Analysis & Design*”, Thomson Course Technology, 2004
3. James Rumbaugh. Micheal Blaha, *Object oriented Modeling and Design with UML*. Pearson, second edition, 2005.
4. Grady Booch, James Rumbaugh, Ivar Jacobson, “*The Unified Modeling Language User Guide*”, Pearson Education, 1999.
5. James Rumbaugh, “*Object Oriented Modeling and Design*”, Prentice Hall, 1991.
6. Joseph Schmuilers, “*Teach Yourself UML in 24 Hours*”, Sams publication, 2004.
7. Mike O'Docherty, “*Object-Oriented Analysis and Design: using UML*”, Wiley Publication, 2005.

MCA303T: THEORY OF COMPUTATION

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Review of Mathematical Terms and Theory: Basic Mathematical Notations and Set Theory, Logic Functions and Relations, Language Definitions, Mathematical Inductions and Recursive Definitions. Finite Automata: Deterministic and Non Deterministic Finite Automata, U-Transitions, Conversion from NFA to DGA, Kleene's Theorem, Regular and Non Regular Languages.

UNIT – II [10 Hours]

Context Free Grammar: Introduction to CFG, CFG and Known Languages, Unions, Concatenations and *'s Notations and CFL, Derivatives of Trees and Ambiguity and Unambiguous CFG and Algebraic Expressions, Normal Forms and Simplified Forms. Pushdown Automata, CFL and NFL: Introduction to PDA, Definition, DPDA, PDA Corresponding to CFG, CFG Corresponding to PDA, Introduction to CFL, Intersections and Complements of CFL, Decisions Problems and CFL.

UNIT – III [10 Hours]

Turing Machines, Recursive Language: Model of Computation and Church Turning Thesis, Definitions of Turing Machine, TM and Language Acceptors, Variations of TM, Non Deterministic TM, Universal TM, Enumerable and Language, Recursive and Non Recursive Enumerable.

UNIT – IV [10 Hours]

Computation Functions, Measuring, Classifications And Complexity: Primitive Recursive Functions, Halting Problem, Recursive Predicates and Some Bounded Operations, Unbounded Minimizations and μ -Recursive Functions, Godel Numbering, Computable Functions and μ -Recursive, Numerical Functions.

UNIT – V [10 Hours]

Tractable and Intractable Problems: Growth Rate and Functions, Time and Speed Complexity, Complexity Classes, Tractable and Possibly Intractable Problems, P and Np Completeness, Reduction of Time, Cook's Theorem, Np-Complete Problems.

Reference

1. John E. Hopcroft, Rajeev Motwani, Jeffrey D.Ullman, "Introduction to Automata Theory, Languages and Computation", 3rd Edition, Pearson Education, 2011.
2. John C Martin, "Introduction to Languages and Automata Theory", 3rd Edition, Tata McGraw-Hill, 2007.
3. Daniel I.A. Cohen, "Introduction to Computer Theory", 2nd Edition, John Wiley and Sons, 2009.
4. Thomas A. Sudkamp, "An Introduction to the Theory of Computer Science, Languages and Machines", 3rd Edition, Pearson Education, 2006.

MCA304T: STATISTICAL ANALYSIS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Sample spaces - events - Axiomatic approach to probability - conditional probability - Independent events - Baye's formula - Random Variables - Continuous and Discrete random variables - distribution function of a random variables - Characteristic of distributions - Expectation, variance - coefficient of variation, moment generation function - Chebyshev's inequality

UNIT – II [10 Hours]

Bivariate distribution - conditional and marginal distributions - Discrete distributions - discrete uniform, Binomial poisson and geometric Distributions - Continuous distributions - Uniform, Normal, Exponential and Gamma distributions.

UNIT – III [10 Hours]

Correlation coefficient - Rank correlation coefficient of determination - Linear Regression - Method of Least squares - Fitting of the curve of the form $ax + b$, $ax^2 + bx + c$, ab^x and ax^b - multiple and partial correlation (3 - variables only).

UNIT – IV [10 Hours]

Concept of sampling – Methods of sampling - simple random sampling - Systematic sampling and stratified random sampling (descriptions only) - concepts of sampling distributions and standard error - point estimation (concepts only) - Interval Estimation of mean and proportion. Tests of Hypotheses - Critical Region - two types of Errors - Level of significance - power of the test - Large sample tests for mean and proportion - Exact tests based on Normal, t, F and Chi-square distributions.

UNIT – V [10 Hours]

Basic principles of experimentation - Analysis of variance - one way and two way classifications - computing randomized design - Randomized Block design - Time series Analysis - Measurement of Trend and Seasonal variations.

Reference

1. Mood, A.M., Graybill, F. and Boes, "Introduction to Mathematical Statistics", McGraw-Hill, 1974.
2. Trivedi, K.S., "Probability and Statistics with Reliability, Queuing and Computer Science Applications". Prentice Hall India, New Delhi, 1994.
3. Arnold O. Allen, "Probability, Statistics and Queuing Theory with Computer Science Application", 1978.
4. Bajpai, A.C. Calus, I.M. Fairley, J.A., "Statistical Methods for Engineers and Scientists". John Wiley & Sons, 1979.
5. Douglas, C., Montgomery, Lynwood, A. & Johnson, "Forecasting and Time Series Analysis", Tata McGraw-Hill, New Delhi, 1976.
6. Baisnab, A.P. and Manoranjan Jas, "Elements of Probability and Statistics", Tata McGraw-Hill, New Delhi, 1993.
7. Kossack, C.F. and Hensschkec, C.I., "Introduction to Statistics and Computer Programming", Tata McGraw-Hill, New Delhi.

MCA305P: ADVANCED DATA STRUCTURES LAB

1. Write a C++ Program to read series of names, one per line, from standard input and write these names spelled in reverse order to the standard output using I/O redirection and pipes. Repeat the exercise using an input file specified by the user instead of the standard input and using an output file specified by the user instead of the standard output.
2. Write a C++ program to read and write student object with fixed length records and the fields delimited by "|". Implement pack(), unpack(), modify(), and search() methods.
3. Write a C++ program to read and write student objects with Variable-Length records using any suitable record structure. Implement pack(), unpack(), modify(), and search() methods.
4. Write a C++ program to read and write student objects with Variable-Length records using any suitable record structure and to read from this file a student record using RRN.
5. Write a C++ program to implement simple index on primary key for a file of student objects. Implement add(), search(), delete() using the index.
6. Write a C++ program to implement index on secondary key, the name, for a file of student objects. Implement add(), search(), delete() using the secondary index.
7. Write a C++ program to read two lists of names and then match the names in the two lists using sequential Match based on a single loop. Output the names common to both the lists.
8. Write a C++ program to read k Lists of names and merge them using k-way merge algorithm with $k = 8$.
9. Write a C++ program to implement B-Tree for a given set of integers and its operations insert() and search(). Display the tree.
10. Write a C++ program to implement B+ Tree for a given set of integers and its operations insert() and search(). Display the tree.
11. Write a C++ program to store and retrieve student data from file using hashing. Use any collision resolution techniques.
12. Write a C++ program to reclaim the free space resulting from the deletion of records using linked list.

MCA306P: OBJECT ORIENTED ANALYSIS AND DESIGN USING UML LAB

1. The student should take up the case study of Unified Library application which is mentioned in the theory, and Model it in different views i.e. Use case view, logical view, component view, Deployment view, Database design, forward and Reverse Engineering, and Generation of documentation of the project.
2. Student has to take up another case study of his/her own interest and do the same whatever mentioned in first problem. Some of the ideas regarding case studies are given in reference books, which were mentioned in theory syllabus, can be referred for some idea.

**MCA307T (Soft Core): QUANTITATIVE, TEACHING AND REASERCH
APTITUDE**

Total Teaching Hours: 48

No. of Hours / Week: 03

UNIT – I [8 Hours]

Numbers Property – Simplification – Divisibility – HCF and LCM – Decimal Fractions – Square roots and Cube Roots – Logarithms – Antilogarithms - Surds and indices - Permutation and Combination – Probability – Odd man out series - Number series - letter series – codes – Relationships – classification.

UNIT – II [10 Hours]

Time and work – Problems on Ages – Calendar – Clock – Pipes and Cistern – Time and Distance – Problems of Train – Boats and Streams. Area – Volume and surface Areas – Heights and Distances – Data Interpretation: Tabulation – Bar Graphs – Pie Charts – Line Graphs. Data Interpretation - Sources, acquisition and interpretation of data; Quantitative and qualitative data; Graphical representation and mapping of data.

UNIT – III [10 Hours]

Simple Interest – Compound Interest – Stocks and Shares – True Discount – Banker’s discount. Averages – Percentage – Profit and Loss - Ratio and Proposition – Partnership – Allegation and mixture – Chain rule. Understanding the structure of arguments; Evaluating and distinguishing deductive and inductive reasoning; Verbal analogies: Word analogy Applied analogy; Verbal classification; Reasoning Logical Diagrams: Simple diagrammatic relationship, multidiagrammatic relationship; Venn diagram; Analytical Reasoning.

UNIT – IV [10 Hours]

Teaching: Nature, objectives, characteristics and basic requirements; Learner's characteristics; Factors affecting teaching; Methods of teaching; Teaching aids; Evaluation systems. Research Aptitude: Meaning, characteristics and types; Steps of research; Methods of research; Research Ethics; Paper, article, workshop, seminar, conference and symposium; Thesis writing: its characteristics and format. Reading Comprehension: A passage to be set with questions to be answered. Communication: Nature, characteristics, types, barriers and effective classroom communication.

UNIT – V [10 Hours]

Higher Education System: Governance, Polity and Administration; Structure of the institutions for higher learning and research in India; formal and distance education; professional/technical and general education; value education: governance, polity and administration; concept, institutions

Reference

1. R.S. Aggarwal, *Quantitative Aptitude*, S. Chand & Company, New Delhi, 2012.
2. Govind Prasad Singh and Rakesh Kumar, *Text Book of Quickest Mathematics (for all Competitive Examinations)*, Kiran Prakashan, 2012.
3. R.S. Aggarwal, *Objective Arithmetic*, S. Chand & Company, New Delhi, 2005.
4. Dr. Lal, Jain, Dr. K. C. Vashistha, “U.G.C.- NET/JRF/SET Teaching & Research Aptitude”, Upkar Prakashan, 2010.
5. “UGC NET/SLET: Teaching & Research Aptitude”, Bright Publications, 2010.

FOURTH SEMESTER
MCA401T: ADVANCED JAVA PROGRAMMING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction: Data Types, Operators, Classes, Inheritance, Packages and Interfaces. Exception Handling, Concurrency and Multithreaded programming, Enumerations, Autoboxing, Annotations, I/O, Generics, String handling

UNIT – II [10 Hours]

JVM: Java Class file, Class Loader, Linking model, Garbage collection, Type conversion, Floating Point Arithmetic, Method Invocation and Return, Thread synchronization. Java I/O: Closeable, Flushable Interfaces, The Stream classes, Bytes Streams, Character Streams, Console Class, Serialization. Java Networking - Networking Classes and Interfaces, TCP/IP Sockets, Datagrams

UNIT – III [10 Hours]

Event Handling: Event Classes, Event Listener Interfaces, Adaptor Classes, Inner Classes. Comparable and Comparator. Java Sandbox security model, Applets. Server side programming - Java Servlets, JSP, Java XML library - JAXP, XML Parsing - DOM, SAX, Stax. Java Web Services – RESTful Web Services, SOAP Web Services

UNIT – IV [10 Hours]

Java Design patterns: Singleton, Observer, Adaptor, Proxy, Decorator, Factory, AbstractFactory, Fascade, Command, Template Method patterns, MVC.

UNIT – V [10 Hours]

Spring and Hibernate framework, Spring Flow, Hibernate Flow.

Reference

1. *Herbert Schildt, "Java The Complete Reference", 7th addition, 2006.*
2. *Ken Arnold, James Gosling, David Holmes, "The Java TM Programming Language", Addison-Wesley, 2006*
3. *Bill Venners, "Inside the Java 2 Virtual Machine", McGraw-Hill, 2nd edition, 2000.*
4. *Santhosh, "Spring and Hibernate", Tata McGraw-Hill, 2009.*

MCA402T: ADVANCED ALGORITHMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I [12 Hours]

Analysis Techniques: Growth of Functions: Asymptotic notations; Standard notations and common functions; Recurrences and Solution of Recurrence equations- The substitution method, The recurrence – tree method, The master method; Amortized Analysis: Aggregate, Accounting and Potential Methods.

UNIT-II [10 Hours]

Graph Algorithms: Bellman - Ford Algorithm; Single source shortest paths in a DAG; Johnson's Algorithm for sparse graphs; Flow networks and Ford-Fulkerson method; Maximum bipartite matching.

UNIT-III [10 Hours]

Polynomials and the FFT: Representation of polynomials; The DFT and FFT; Efficient implementation of FFT. Number -Theoretic Algorithms: Elementary notions; GCD; Modular Arithmetic; Solving modular linear equations; The Chinese remainder theorem; Powers of an element; RSA cryptosystem; Primality testing; Integer factorization.

UNIT-IV [10 Hours]

String-Matching Algorithms: Naïve string Matching; Rabin - Karp algorithm; String matching with finite automata; Knuth-Morris-Pratt algorithm Boyer – Moore algorithms. Approximation Algorithms: The vertex-cover problem; The traveling-sales-person problem; The set covering problem; The subset-sum problem.

UNIT-V [10 Hours]

Introduction Parallel Algorithms: Parallel Sorting Algorithms, Parallel Search Algorithms. Introduction to Amortization.

Reference

1. *T. H Cormen, C E Leiserson, R L Rivest and C Stein: "Introduction to Algorithms", 3rd Edition, Prentice-Hall of India, 2011.*
2. *Mark Allen Weiss, Data Structures and Algorithm analysis in C++, 3rd edition, PEA, 2011.*
3. *Ellis Horowitz, Sartaj Sahni, S.Rajasekharan: "Fundamentals of Computer Algorithms", 1st edition, University Press, 2012.*

MCA403T: ADVANCED SOFTWARE ENGINEERING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I [12 Hours]

Agile development: Agile, Agility and cost of change; Agile Process, Extreme programming; Other agile process models. Web Application Design: Web application design quality; Design quality and design pyramid; Interface design; Aesthetic design; Content design; Architecture design; Navigation design; Component-level design; Object-oriented hypermedia design method.

UNIT - II [10 Hours]

Formal Modeling and verification: The cleanroom strategy; Functional specification; Cleanroom design; Cleanroom testing; Formal methods: Concepts; Applying mathematical notation for formal specification; Formal specification languages. Software Project Management: The management spectrum; The management of people, product, process and project; The W5HH Principle; Critical practices. Estimation for Software Projects: Software project estimation; Decomposition techniques, Examples; Empirical estimation models; Estimation for Object-Oriented projects; Specialized estimation techniques; The make / buy decision.

UNIT - III [10 Hours]

Software Project Scheduling: Basic concepts and principles of project scheduling; Defining task set and task network; Scheduling; Earned value analysis. Risk Management: Reactive versus proactive strategies; Software risks; risk identification; Risk projection; Risk refinement; Risk mitigation, monitoring and management; The RMMM plan. Maintenance and Reengineering: Software maintenance; Software supportability; Reengineering; Business process reengineering; Software reengineering; Reverse engineering; Restructuring; Forward engineering; The economics of reengineering.

UNIT - IV [10 Hours]

Software Process Improvement (SPI): Approaches to SPI; Maturity models; The SPI process; The CMMI; The People CMM; Other SPI frameworks: SPICE, Bootstrap, PSP and TSP, ISO; SPI return on investment.

UNIT - V [10 Hours]

Software Configuration Management (SCM): Basic concepts; SCM repository; The SCM process; Configuration management for web applications; SCM standards. Product Metrics: A framework for product metrics; Metrics for requirements model, design model, source code, testing and maintenance; Design metrics for web applications. Process and Project Metrics: Basic concepts; Software measurement; Metrics for software quality; Integrating metrics within the software process; Metrics for small organizations; Establishing a software metrics program.

Reference

1. Roger S. Pressman, "Software Engineering: A Practitioner's Approach", Alternate Edition, 7th Edition, McGraw Hill, 2010.
2. Ian Sommerville, "Software Engineering", 8th Edition, Pearson, 2012.

MCA404T: QUANTITATIVE TECHNIQUES

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT - I [12 Hours]

Introduction to Operations Research: Basics definition, scope, objectives, phases, models and limitations of Operations Research. Linear Programming Problem – Formulation of LPP, Graphical solution of LPP. Simplex Method, Artificial variables, big-M method, two phase method, degeneracy and unbound solutions.

UNIT - II [10 Hours]

Transportation Problem: Formulation, Solution, Unbalanced Transportation Problem. Finding Basic Feasible Solutions – Northwest corner rule, least cost method and Vogel's approximation method. Optimality test: the stepping stone method and MODI method. Assignment Model: Formulation. Hungarian method for optimal solution. Solving unbalanced problem. Traveling salesman problem and assignment problem.

UNIT - III [10 Hours]

Network Models: Definition, Minimum Spanning Tree algorithm, Shortest Route problem, Maximum flow problem. CPM & PERT: Network representation, Critical Path Computations, Linear Programming formulation of CPM, PERT Networks.

UNIT - IV [10 Hours]

Dynamic programming: Characteristics of dynamic programming. Dynamic Programming approach for Priority Management employment smoothing. Games Theory. Competitive games, rectangular game, saddle point, minimax (maximin) method of optimal strategies, value of the game. Solution of games with saddle points, dominance principle. Rectangular games without saddle point – mixed strategy for 2 X 2 games.

UNIT - V [10 Hours]

Queuing System: Elements of Queuing model, Pure birth and death models, Generalized Poisson Queuing model, specialized poisson. Queues: Steady-state Measure of performance, single server models, Multiple server models, Matching serving model.

Reference

1. J K Sharma., "Operations Research Theory & Applications , 3e", Macmillan India Ltd, 2007.
2. P. Sankara Iyer, "Operations Research", Tata McGraw-Hill, 2008.
3. P. K. Gupta and D. S. Hira, "Operations Research", S. Chand & co., 2007
4. H.A. Taha, "Operations Research", PHI, New Delhi. - 1996
5. P.N Gupta & Gandhi " Quantitative Techniques" , University Science Proess 2011

MCA405P: ADVANCED JAVA PROGRAMMING LAB

1. Write a Java program that works as a simple calculator. Use a grid layout to arrange buttons for the digits and for the +, -, *, % operations. Add a text field to display the result.
2. Write a Java program that creates three threads. First thread displays “Good Morning” every one second, the second thread displays “Hello” every two seconds and the third thread displays “Welcome” every three seconds.
3. Write a java program that simulates a traffic light. The program lets the user select one of three lights: red, yellow, or green. When a radio button is selected, the light is turned on, and only one light can be on at a time No light is on when the program starts
4. Write a Java Program to execute select query using JDBC
5. Write a Java Program to Create Thread using Interface and class.
6. Write a Java Program to Implement Producer and Consumer problem using Threads.
7. Write a Java Program to Implement DOM parser .
8. Write a Java Program to Implement SAX parser.
9. Write a Java Program to Implement Singleton design pattern using java.
10. Write a Java Program to Implement Factory and AbstractFactory design pattern using java.
11. Write a Java Program to Implement Observer Design pattern method using java.
12. Write a Java Program to Implement Adapter design design pattern using java
13. Write a Java Program to Implement proxy design pattern using java
14. Write a Java Program to Implement Helloworld program using servlets.
15. Write a JSP Program using Expression, Scriplet and Directive.

MCA406P: ADVANCED ALGORITHMS

1. Program to implement Bellman ford algorithm.
2. Program to implement Johnson algorithm.
3. Program to implement Ford-Fulkerson method
4. Program to solve Linear modular equation
5. Program to implement Rabin - Karp algorithm
6. Program to implement Knuth-Morris-Pratt algorithm
7. Program to implement Boyer – Moore algorithms.
8. Program to solve traveling-sales-person problem
9. Program to solve set covering problem
10. Program to solve Sum of subset problem.

MCA407T: SOFT SKILLS AND PERSONALITY DEVELOPMENT

Total Teaching Hours: 48

No. of Hours / Week: 03

UNIT – I [10 Hours]

Introduction to Soft Skills and Hard Skills, Break the ice berg –FEAR, Self Development - Etiquette and Manners. The Self Concept: Attitude, The process of attitude formation, positive attitude, How to build a success attitude, You are the chief architecture of yourself. Self Management Techniques. Believe in yourself: Self Image and Self Esteem, Building Self Confidence, Environment we mix with, How to build self-image.

UNIT - II [10 Hours]

Meaning and definition of personality, Personal Planning and Success Attitude: Prioritizing, Creating the master plan, Active positive visualization and Spot analysis. Self-Motivation and Communication: Levels of motivation, power of irresistible enthusiasm, etiquettes and manners in a group, public speaking, Importance of listening and responding.

UNIT - III [10 Hours]

Motivation Skills & Personality Development, Goal Setting, Career Planning, Resume Building, Psychometric Test, Priority Management & Time Management, Positive Attitude and Self Confidence. Verbal Communication includes Planning, Preparation Delivery, Feedback and assessment of activities like: Public speaking, Group Discussion, Oral Presentation skills, Perfect Interview, Listening and observation skills, body language and use of Presentation aids.

UNIT - IV [8 Hours]

Written communication that includes project proposals, brochures, newsletters, articles. Etiquettes that include: etiquettes in social as well as office settings, email etiquettes, telephone etiquettes. Improving Personal Memory, study skills that include rapid reading, notes taking and creativity.

UNIT - V [10 Hours]

Problem Solving and Decision Making Skills, Perceptive, Conceptual, Creative, Analytical and Decisive. Leadership as a process: co-ordination while working in a team, Leadership styles, Leader and Team player, Management of conflict, Profiles of great and successful personalities, Role of career planning in personality development, negotiation, Motivating.

Reference

1. Wallace: "Personality Development", 1st Edition, 2008 Cengage Learning India.
2. Richard Denny, "Succeed for your self", Kogan page India, 3rd Edition. www.vivagroupindia.com.
3. John Hoover & Angelo Valenti, "Unleashing Leadership", Jaico publishing House –WWW.JAICOBOKS.COM
4. Kundu, C.L – "Personality development", Sterling Bangalore.
5. Sandra D. Collins, "Listening and Responding", Cengage Learning India, 2nd Edition, 2008.
6. David E. Rye, "1,001 ways to inspire your organization, your team and yourself", Jaico publishing house, Career Press, 1998.

FIFTH SEMESTER
MCA501T: ADVANCED WEB PROGRAMMING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Perl, CGI Programming: Origins and uses of Perl; Scalars and their operations; Assignment statements and simple input and output; Control statements; Fundamentals of arrays; Hashes; References; Functions; Pattern matching; File input and output; Examples. The Common Gateway Interface; CGI linkage; Query string format; CGI.pm module; A survey example; Cookies.

UNIT – II [10 Hours]

Servlets and Java Server Pages: Overview of Servlets; Servlet details; A survey example; Storing information on Clients; Java Server Pages. PHP: Origins and uses of PHP; Overview of PHP; General syntactic characteristics; Primitives, operations and expressions; Output; Control statements; Arrays; Functions; Pattern matching; Form handling; Files; Cookies; Session tracking.

UNIT – III [10 Hours]

Database Access through the Web: Relational Databases; An introduction to SQL; Architectures for Database access; The MySQL Database system; Database access with PERL and MySQL; Database access with PHP and MySQL; Database access with JDBC and MySQL.

UNIT – IV [10 Hours]

Introduction to Ruby, Rails: Origins and uses of Ruby; Scalar types and their operations; Simple input and output; Control statements; Fundamentals of arrays; Hashes; Methods; Classes; Code blocks and iterators; Pattern matching. Overview of Rails; Document requests; Processing forms; Rails applications with Databases; Layouts.

UNIT – V [10 Hours]

Introduction to Ajax: Overview of Ajax; The basics of Ajax; Rails with Ajax.

Reference

1. Robert W. Sebesta: “Programming the World Wide Web”, 4th Edition, Pearson Education, 2012.
2. M. Deitel, P.J. Deitel, A. B. Goldberg: “Internet & World Wide Web How to program”, 3rd Edition, Pearson Education, 4th edition, PHI, 2011.
3. Chris Bates: “Web Programming Building Internet Applications”, 3rd Edition, Wiley India, 2011.
4. Joyce Farrell, Xue Bai, Michael Ekedahl: “The Web Warrior Guide to Web Programming”, 1st edition, Thomson, 2010.

MCA502T: ADVANCED DATABASE MANAGEMENT SYSTEMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

NOSQL and Query Optimization: Definition of NOSQL, History of NOSQL and Different NOSQL products, Exploring MongoDB Basics: NOSQL Storage architecture, CRUD operations with MongoDB, Querying, Modifying and Managing NOSQL Data stores, Indexing and ordering data sets (MongoDB/CouchDB/Cassandra). Advanced NOSQL, NOSQL in CLOUD, Parallel Processing with Map Reduce, BigData with Hive. Working with NOSQL:, Query Optimization: Overview, Transformation of Relational Expressions, Estimating Statistics of Expression Choice of Evaluation Plans, Materialized views Advanced Query Optimization: Motivation, Query Processing Phases, Logical Query Optimization.

UNIT – II [10 Hours]

SAN: Introduction to Information Storage and Management, Data Center Infrastructure, Information Lifecycle Components of Storage System Environment, Disk Drive Components, Disk Drive Performance, Fundamental Laws Governing Disk Performance, Logical Components of the Host, Application Requirements and Disk Performance. Data Protection, Intelligent Storage system: Implementation of RAID, RAID Array Components, RAID Levels, RAID Impact on Disk Performance.

UNIT – III [10 Hours]

Data Warehousing and Data Mining: Data Warehouse Architecture, Data Warehouse Implementation, Mining Methods, Mining Various Kinds of Association Rules. Data Mining: Data Mining Applications, Social Network Analysis;

UNIT – IV [10 Hours]

Big Data: Introduction to principles and practice of systems that improve performance through experience. Topics include statistical learning framework, supervised and unsupervised learning, performance evaluation and empirical methodology; design tradeoffs. Introduction to the Big Data problem. Current challenges, trends, and applications Algorithms for Big Data analysis. Mining and learning algorithms that have been developed specifically to deal with large datasets Technologies for Big Data management. Big Data technology and tools, special consideration made to the Map-Reduce paradigm and the Hadoop ecosystem.

UNIT - V [10 Hours]

Information Retrieval and Search Engines: Architecture of search engine, Ranking and Evaluation; CRAWLS AND FEEDS: Crawling the Web, Directory Crawling, Conversion Problem, Storing the Documents, Detecting Duplicates. Processing text: Text Statistics, Document Parsing, Document Structure and Markup, Link Analysis, Information Extraction, Internationalization; RANKING WITH INDEXES: Inverted indexes, Compression, Entropy and Ambiguity, Delta Encoding, Bit-aligned codes, Auxiliary Structures, Index Construction, Query Processing.

Reference

1. *“Professional NOSQL”* by Shashank Tiwari, 2011, WROX Press *The Definitive guide to MongoDB, The NoSQL Database for Cloud and Desktop Computing*, by Eelco Plugge, Tim Hawkins, Peter Membrey Apress 2010
2. *“NoSQL Handbook”* by Mathias Meyer, 2011 Paperplanes.
3. *MongoDB: The Definitive Guide, 2nd Edition*, by Kristina Chodorow 2013 Silberschatz, Korth and Sudharshan Andreas Meister Otto-von-Guericke University Magdeburg
4. G. Somasundaram, Alok Shrivastava (Editors): *Information Storage and Management: Storing, Managing & Protecting Digital Information in Classic, Visualized and Cloud Environments*, 2 nd edition, EMC Education Services, Wiley- India, 2009. ISBN 978-1- 1180-9483-9
5. Jiawei Han and Micheline Kamber, *Data Mining, Concepts and Techniques*, Morgan Kaufmann Publisher, II Edition, 2006.
6. *Machine Learning*, Tom Mitchell. ISBN-10: 0070428077 | ISBN-13: 978-0070428072 | Edition: 1 (optional)
7. *Hadoop Real World Solutions Cookbook* by Jonathan R. Owens, Brian Femiano, and Jon Lentz Publication Date: February 7, 2013 | ISBN-10: 1849519129 | ISBN-13: 978- 1849519120
8. *Search Engines: Information Retrieval in Practice: Trevor Strohman, Bruce Croft Donald Metzler*, Kindle Edition, Pearson Education, 2011.

MCA503T: ARTIFICIAL INTELLIGENCE

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT-I [12 Hours]

Introduction to Artificial Intelligence: Definition, AI Applications, AI representation, Properties of internal Representation, Heuristic search techniques. Best first search, mean and end analysis, A* and AO* Algorithm, Game Playing, Minimize search procedure, Alpha beta cutoffs, waiting for Quiscent, Secondary search.

UNIT-II [10 Hours]

Knowledge representation using predicate logic: predicate calculus, Predicate and arguments, ISA hierarchy, frame notation, resolution, Natural deduction. Knowledge representation using non monotonic logic: TMS (Truth maintenance system), statistical and probabilistic reasoning, fuzzy logic, structure knowledge representation, semantic net, Frames, Script, Conceptual dependency.

UNIT-III [10 Hours]

Planning: block world, strips, Implementation using goal stack, Non linear planning with goal stacks, Hierarchical planning, list commitment strategy. Perception: Action, Robot Architecture, Vision, Texture and images, representing and recognizing scenes, waltz algorithm, Constraint determination, Trihedral and non trihedral figures labeling.

UNIT-IV [10 Hours]

Learning: Learning as induction matching algorithms. Failure driver learning, learning in general problem solving concept learning. Neural Networks: Introduction to neural networks and perception-qualitative Analysis only, neural net architecture and applications.

UNIT-V [10 Hours]

Natural language processing and understanding and pragmatic, syntactic, semantic, analysis, RTN, ATN, understanding sentences. Expert system: Utilization and functionality, architecture of expert system, knowledge representation, two case studies on expert systems.

Reference

1. E. Charniak and D.McDermott, "Introduction to artificial Intelligence", Pearson Education, 2012.
2. Dan W. Patterson, "Introduction to Artificial Intelligence and Expert Systems", PHI, 2013.
3. E. Rich and K. Knight, "Artificial Intelligence", Tata McGraw Hill, 2013.
4. Nils J. Nilson, "Principles of Artificial Intelligence", Narosa Publishing Co. 2002.
5. M.Timjones "Artificial Intelligence a Systems Approach" University Science Press 2010.

MCA505P: ADVANCED WEB PROGRAMMING LAB

1. Develop and demonstrate a XHTML file that includes Javascript script to generate first n Fibonacci numbers.
2. Develop and demonstrate the usage of inline and external style sheet using CSS
3. Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.
4. Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.
5. Design an XML document to store information about a student in a college affiliated to BU. The information must include USN, Name, Name of the College, Branch, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.
6. Write a Perl program to display a digital clock which displays the current time of the server.
7. Write a Perl program to insert name and age information entered by the user into a table created using MySQL and to display the current contents of this table.
8. Write a PHP program to store current date-time in a COOKIE and display the 'Last visited on' date-time on the web page upon reopening of the same page.
9. Write a PHP program to read student data from an XML file and store into the MYSQL database. Retrieve and display.
10. Write a Perl program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.
11. Write a CGI-Perl program to use a cookie to remember the day of the last login from a user and display it when run.
12. Write a Perl program to display various Server informations like Server Name, Server Software, Server protocol, CGI Revision etc.
13. Create a XHTML form with Name, Address Line 1, Address Line 2, and E-mail text fields. On submitting, store the values in MySQL table. Retrieve and display the data based on Name.
14. Write a Perl program to accept the User Name and display a greeting message randomly chosen from a list of 4 greeting messages.

MCA506P: MINI PROJECT

The students are supposed to develop a mini – project for above mentioned lab. The students can do the project in a group (team) consisting of not more than 2 students. A project report must be submitted by each team.

**SIXTH SEMESTER
ELECTIVES**

MCA6E1: DISTRIBUTED OPERATING SYSTEMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Fundamentals: What is Distributed Computing Systems? Evolution of Distributed Computing System; Distributed Computing System Models; What is Distributed Operating System? Issues in Designing a Distributed Operating System; Introduction to Distributed Computing Environment (DCE). Message Passing: Introduction, Desirable features of a Good Message Passing System, Issues in PC by Message Passing, Synchronization, Buffering, Multidatagram Messages, Encoding and Decoding of Message Data, Process Addressing, Failure Handling, Group Communication, Case Study: 4.3 BSD UNIX IPC Mechanism.

UNIT – II [10 Hours]

Remote Procedure Calls: Introduction, The RPC Model, Transparency of RPC, Implementing RPC Mechanism, Stub Generation, RPC Messages, Marshaling Arguments and Results, Server Management, Parameter-Passing Semantics, Call Semantics, Communication Protocols for RPCs, Complicated RPCs, Client-Server Binding, Exception Handling, Security, Some Special Types of RPCs, RPC in Heterogeneous Environments, Lightweight RPC, Optimization for Better Performance, Case Studies: Sun RPC.

UNIT – III [10 Hours]

Distributed Shared Memory: Introduction, General Architecture of DSM Systems, Design and Implementation Issues of DSM, Granularity, Structure of Shared Memory Space, Consistency Models, Replacement Strategy, Thrashing, Other approaches to DSM, Heterogeneous DSM, Advantages of DSM. Synchronization: Introduction, Clock Synchronization, Event Ordering, Mutual Exclusion, Dead Lock, Election Algorithms.

UNIT – IV [10 Hours]

Resource Management: Introduction, Desirable Features of a Good Global Scheduling Algorithm, Task Assignment Approach, Load – Balancing Approach, Load – Sharing Approach Process Management: Introduction, Process Migration, Threads.

UNIT – V [10 Hours]

Distributed File Systems: Introduction, Desirable Features of a Good Distributed File System, File models, File– Accessing Models, File – Sharing Semantics, File – Caching Schemes, File Replication, Fault Tolerance, Atomic Transactions, Design Principles.

Reference

1. Pradeep. K. Sinha: *Distributed Operating Systems: Concepts and Design*, PHI, 2007.
2. Andrew S. Tanenbaum: *Distributed Operating Systems*, Pearson Education, 2013.

MCA6E2: SOFTWARE TESTING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Basics of Software Testing and Examples: Basic definitions, Test cases, Insights from a Venn diagram, Identifying test cases, Error and fault taxonomies, Levels of testing. Examples: Generalized pseudo code, The triangle problem, The Next Date function, The commission problem, The SATM (Simple Automatic Teller Machine) problem. Decision Table-Based Testing: Decision tables, Test cases for the triangle problem, Test cases for the Next Date function, Test cases for the commission problem, Guidelines and observations. Data Flow Testing: Definition-Use testing, Slice-based testing, Guidelines and observations.

UNIT – II [10 Hours]

Levels of Testing: Traditional view of testing levels, Alternative life-cycle models, The SATM system, Separating integration and system testing. Integration Testing: A closer look at the SATM system, Decomposition-based, call graph-based, Path-based integrations, Case study. System Testing: Threads, Basic concepts for requirements specification, Finding threads, Structural strategies and functional strategies for thread testing, SATM test threads, System testing guidelines, ASF (Atomic System Functions) testing example.

UNIT – III [10 Hours]

Interaction Testing: Context of interaction, A taxonomy of interactions, Interaction, composition, and determinism, Client/Server Testing. Issues in Object-Oriented Testing: Units for object-oriented testing, Implications of composition and encapsulation, inheritance, and polymorphism, Levels of object-oriented testing, GUI testing, Dataflow testing for object-oriented software, Examples. Class Testing: Methods as units, Classes as units.

UNIT – IV [10 Hours]

Object-Oriented Integration Testing: UML support for integration testing, MM-paths for object-oriented software, A framework for object-oriented dataflow integration testing. GUI Testing: The currency conversion program, Unit testing, Integration Testing and System testing for the currency conversion program. Object-Oriented System Testing: Currency converter UML description, UML-based system testing, State chart-based system testing. Exploratory Testing: The context-driven school, Exploring exploratory testing, Exploring a familiar example, Exploratory and context-driven testing observations.

UNIT – V [10 Hours]

Model-Based Testing: Testing based on models, Appropriate models, Use case-based testing, Commercial tool support for model-based testing. Test-Driven Development: Test-then-code cycles, Automated test execution, Java and JUnit example, Remaining questions, Pros, cons, and open questions of TDD, Retrospective on MDD versus TDD. A Closer Look at All Pairs Testing: The all-pairs technique, A closer look at NIST study, Appropriate applications for all pairs testing, Recommendations for all pairs testing. Software Testing Excellence: Craftsmanship, Best practice of software

testing, Top 10 best practices for software testing excellence, Mapping best practices to diverse projects.

Reference

1. *Paul C. Jorgensen: Software Testing, A Craftsman's Approach, 3rd Edition, Auerbach Publications, 2012.*
2. *Aditya P Mathur: Foundations of Software Testing, Pearson, 2008.*
3. *Mauro Pezze, Michal Young: Software Testing and Analysis – Process, Principles and Techniques, 1st edition, John Wiley & Sons, 2011.*
4. *Srinivasan Desikan, Gopalaswamy Ramesh: Software testing Principles and Practices, 1st Edition, Pearson, 2012.*
5. *Brian Marrick: The Craft of Software Testing, 1st edition, Pearson, 2012.*

MCA6E3: PARALLEL ALGORITHMS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT- I [12 Hours]

INTRODUCTION: Introduction to Parallel Algorithms – Models of Parallel Computation – Sorting on an EREW- SIMDPRAM Computer – Relation between PRAM Models – SIMD Algorithms – MIMD Algorithms – Selection – Desirable Properties for Parallel Algorithms - Parallel Algorithm for Selection – Analysis of Parallel Algorithms.

UNIT - II [10 Hours]

SORTING AND SEARCHING: Merging on the EREW and CREW Models - Fast Merging on EREW - Sorting Networks – Sorting on a Linear Array – Sorting on CRCW, CREW, EREW Models – Searching a Sorted Sequence – Searching a Random Sequence.

UNIT- III [10 Hours]

ALGEBRAIC PROBLEMS: Generating Permutations and Combinations in Parallel – Matrix Transpositions – Matrix by Matrix Multiplications – Matrix by Vector multiplication.

UNIT- IV [10 Hours]

GRAPH THEORY AND COMPUTATIONAL GEOMETRY PROBLEMS: Connectivity Matrix – Connected Components – All Pairs Shortest Paths – Minimum Spanning Trees – Point Inclusion – Intersection, Proximity and Construction Problems - Sequential Tree Traversal - Basic Design Principles – Algorithm – Analysis.

UNIT - V [10 Hours]

DECISION AND OPTIMIZATION PROBLEMS: Computing Prefix Sums – Applications - Job Sequencing with Deadlines – Knapsack Problem- The Bit Complexity of Parallel Computations.

Reference

1. Selim G. Akl, “The Design and Analysis of Parallel Algorithms”, Prentice Hall, New Jersey, 2009.
2. Michael J. Quinn, “Parallel Computing : Theory & Practice”, Tata McGraw Hill Edition, 2013.
3. Justin R. Smith, “The Design and Analysis of Parallel Algorithms”, Oxford University Press, USA , 2003.
4. Joseph JaJa, “Introduction to Parallel Algorithms”, Addison-Wesley, 2002.

MCA6E4: COMPILER DESIGN

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT-I [10 Hours]

Introduction to compiler- Compiler and Translators-Phases of Compilation-One pass compiler, Lexical Analysis-Role of Lexical Analyzer-Regular expressions-Finite Automata-Design of lexical Analyzer- Context free grammars-Parse trees.

UNIT-II [07 Hours]

Parsers-Shift reduce parsing-Operator precedence parsing-Top down parsing Predictive parsers-Simple precedence parsers-LR parsers-SLR parser tables-LALR parsing tables-Ambiguous grammars.

UNIT-III [10 Hours]

Syntax directed translation-Construction of syntax trees-Evaluation of S attributed and L attributed definitions-Top down Translation-Recursive evaluators, Type checking-Simple type checker-Type conversions- Overloading of functions and operators-Polymorphic functions, Run time environment –Source language issues-Storage organization-Storage Allocation-symbol tables-Dynamic storage allocation techniques.

UNIT-IV [15 Hours]

Intermediate code generation-Languages-Declarations-Assignment statements-Boolean expression-Case statements- Backpatching-Procedure Calls, code optimization-Sources of optimization-Basic blocks-Loops-Global Data Flow analysis- Solution of data flow equations- Code improving transformations-Dealing with aliases-Data Flow analysis of flow graphs-Symbolic debugging of optimized code, Code generations-Issues in the design of code generator- Simple code generator Register allocation and assignment-DAG representations-PEE hole optimization- generation of code from DAG's-Code generation algorithm.

UNIT-V [10 Hours]

Approaches to compiler development- Compiler environment- Testing and Maintenance Compiler for Pascal-Compiler for C.

Reference:

1. A.V.Aho Ravi Sethi and J.D Ullman : “ *The Principles of Compiler Design*”, Narosa Publishing House, 2007
2. D.M.Dhamdhare : “*Compiler Construction, Principles and Practice*”, McMillian India Ltd., 2013

MCA6E5: MULTIMEDIA COMMUNICATION

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT-I [06 Hours]

Introduction: What are multimedia, multimedia application, Goal and objectives, Multimedia building blocks, multimedia and internet.

UNIT-II [12 Hours]

Multimedia Configuration: Multimedia PC workstation components, multimedia platform, multimedia development tool, authoring tool, Interactivity, High end multimedia architectures. MULTIMEDIA OPERATING SYSTEM File system (File format: TIEF, BMP, PCX, GIF etc.) Process management, multimedia communication system, multimedia database management system. Multimedia Audio: Basic sound concepts, audio capture, music, speech sound processor, sound recovery technique, VOC4WAV file formats for sound.

UNIT-III [14 Hours]

Multimedia graphics: 2D/3D animation fundamentals, color modules DIGITAL IMAGING: still and moving images; video capture animation video, Processing, video Recovery techniques, AVO, AVI file formats, NTSC, PAL, SECAM, HDTV, system video/audio conferencing techniques and standards, video streaming, motion of synchronization.

UNIT-IV [10 Hours]

Image Compression techniques: LZW, DCT run length coding, JPEG, MPEG, standard hypertext MHEG, Hypertext and Hypermedia, document architecture ODA, MHEG. Augmented and virtual reality and multimedia: Concept, VR devices: hand Gloves, head mounted tracking system, V R Chair, CCD, VCR ,3D, sound system, Head Mounted Displays and rendering software setup, Virtual objects, VRML.

UNIT-V [10 Hours]

Multimedia devices: Mass storage systems for multimedia requirements, Magnetic devices, Optical devices, CDROM, DVD. Scanners: Types and specifications. Windows support to Multimedia: Multimedia Databases (in Oracle), multimedia function calls, windows support for sound, animation, movies, music and midi controls. Multimedia and UNIX, Virtual Coffee house application.

Reference

1. Ralf Steinmetz & Klara Nahr Stedt, PHI Publications: *Multimedia - Computing, Communications and Applications*. 2003
2. Judith Jefcoate, *Multimedia in Practice: Technology and Application* PHI 2008.
3. Durano R Begault, *Virual Reality and Multimedia*, AP Professionals. 2003
4. Micheal J Young, *Windows multimedia and animation with C++ programming for Win95*, AP Professional. 2004

MCA6E6: E-GOVERNANCE

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction to e- Governance, Different Stages of e-Governance, Advantages, Problems and Challenges of e-Governance, National Statues, International Status, Securities in e-Governance.

UNIT – II [10 Hours]

National e-Governance Plan, Government of India guidelines for websites, W3C guidelines, web 2.0, web 3.0

UNIT – III [10 Hours]

Different UN Survey on e-Governance, UN Survey on e-Governance – 2014, e-Government Act, 2002, Adhaar Bill, 2016, II Administrative Reforms Committee Report 11, Digital India Programme, IT Act, 2008 Section 1 to 11A, Section 43 and 66

UNIT – IV [10 Hours]

Workflow Management in e-Governance, Digital Divide, Mechanism to handle Digital Divide, Bridge the digital divide, M-Governance, e-Learning, Role of Social Media in e-Governance, Big data Analytics in e-Governance, Semantic web Analytics.

UNIT – V [10 Hours]

Case Study: Election Commission, Indian Railway Reservation, Addhar – UID, Income Tax, SAKALA, Bhoomi, e-Commission, CET admission, Centralized Admission, Student Scholarship Management.

Reference

1. Mishra D.S (2007). *E-Governance as reform strategy for combating corruption in delivery of public services. Indian Journal of Public Administration. LIII (3).*
2. Bhogle Srinivas (2009). *E-Governance. Selected Readings on Information Technology Management: Contemporary Issues ed. George Kelley. Information Science Reference, New York.*
3. Bhuiyan H Shahjahan (2011). *Modernizing Bangladesh public administration through e-governance: Benefits and challenges. 28, 54-65.*
4. *The World Wide Web Consortium (2008). Web Content Accessibility Guidelines (WCAG) 2.0. Downloaded on 10th January, 2012 from <http://www.w3.org/>*
5. *Government of India (2009). Guidelines for Indian Government websites. Downloaded on 15th January, 2012 from <http://darpg.nic.in/>*
6. *e-Government Act (2002). <https://www.gpo.gov/fdsys/pkg/PLAW-107publ347/pdf/PLAW-107publ347.pdf>*
7. *Digital India Programme. <http://www.digitalindia.gov.in/>*
8. *Information Technolgy Act, 2008. <http://www.dot.gov.in/act-rules/information-technology-act-2000>*
9. *Second Adminstrative Reforms Committee Report. Report 11: Promoting e-Governance: The SMART way Forward<http://arc.gov.in/>*

10. *UN Survey on e-Governmen, 2014 (or latest).*
https://publicadministration.un.org/egovkb/portals/egovkb/documents/un/2014-survey/e-gov_complete_survey-2014.pdf
11. *The Adhaar Bill, 2016.* <http://www.prsindia.org/billtrack/the-aadhaar-targeted-delivery-of-financial-and-other-subsidies-benefits-and-services-bill-2016-4202/>
12. *National e-Governance Plan website.*

MCA6E7: DIGITAL IMAGE PROCESSING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT-I [12 Hours]

DIGITAL IMAGE FUNDAMENTALS: Origin of Digital Image processing – fundamental steps –Components of Image Processing system –Visual perception –Light and EM spectrum –Image sensing and acquisition –Image sampling and Quantization – relationship between pixels, Two-Dimensional Mathematical Preliminaries

UNIT - II [10 Hours]

IMAGE ENHANCEMENT: Spatial Domain: Gray level transformation –Histogram processing –Arithmetic / Logic operations- Spatial filtering –smoothing filters – sharpening filters Frequency Domain: Fourier transform –smoothing frequency domain filters –sharpening filters –Homographic filtering

UNIT - III [10 Hours]

IMAGE RESTORATION: Image Restoration - Degradation Model, Unconstrained Restoration - Lagrange multiplier and Constrained restoration, Inverse filtering-removal of blur caused by uniform linear motion, Wiener filtering, Geometric transformations-spatial transformations.

UNIT- IV [10 Hours]

IMAGE SEGMENTATION: Edge detection, Edge linking via Hough transform, Thresholding, Region based segmentation, Region growing, Region splitting and Merging, Segmentation by morphological watersheds, Basic Concepts, Dam Construction, Watershed segmentation algorithm.

UNIT- V [10 Hours]

IMAGE COMPRESSION: Need for data compression, Fundamentals –Image compression models Huffman, Run Length Encoding, Shift codes, Arithmetic coding, Vector Quantization, Transform coding, JPEG standard, MPEG.

Reference

1. Rafael C. Gonzalez, Richard E. Woods, "Digital Image Processing", Pearson, Second Edition, 2004.
2. Anil K. Jain," Fundamentals of Digital Image Processing", Pearson 2002.
3. Kenneth R. Castleman," Digital Image Processing", Pearson, 2006.
4. Rafael C. Gonzalez, Richard E. Woods, Steven Eddins,"Digital Image Processing using MATLAB", Pearson Education, Inc., 2004.
5. D,E. Dudgeon and RM. Mersereau, "Multidimensional Digital Signal Processing", Prentice Hall Professional Technical Reference, 1990
6. William K. Pratt, "Digital Image Processing", John Wiley, New York, 2002
7. Milan Sonka et al, "IMAGE PROCESSING, ANALYSIS AND MACHINE VISIO", Brookes/Cole, Vikas Publishing House, 2nd edition, 1999

MCA6E8: MOBILE COMPUTING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

Introduction, issues in mobile computing, overview of wireless telephony: cellular concept, GSM: air-interface, channel structure, location management: HLR-VLR, hierarchical, handoffs, channel allocation in cellular systems, CDMA, GPRS.

UNIT -II [10 Hours]

Wireless Networking, Wireless LAN Overview: MAC issues, IEEE 802.11, Blue Tooth, Wireless multiple access protocols, TCP over wireless, Wireless applications, data broadcasting, Mobile IP, WAP: Architecture, protocol stack, application environment, applications.

UNIT – III [10 Hours]

Data management issues, data replication for mobile computers, adaptive clustering for mobile wireless networks, File system, Disconnected operations.

UNIT– IV [10 Hours]

Mobile Agents computing, security and fault tolerance, transaction processing in mobile computing environment.

UNIT– V [10 Hours]

Ad Hoc networks, localization, MAC issues, Routing protocols, global state routing (GSR), Destination sequenced distance vector routing (DSDV), Dynamic source routing (DSR), Ad Hoc on demand distance vector routing (AODV), Temporary ordered routing algorithm (TORA), QoS in Ad Hoc Networks, applications.

Reference

1. J. Schiller, *Mobile Communications*, Addison Wesley, 2009.
2. A. Mehrotra, *GSM System Engineering*, Artech House, 1997.
3. M. V. D. Heijden, M. Taylor, *Understanding WAP*, Artech House, 2011.
4. Charles Perkins, *Mobile IP*, Addison Wesley, 2010.
5. Charles Perkins, *Ad hoc Networks*, Addison Wesley, 2009.

MCA6E9: TCP/IP

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT I [12 Hours]

INTRODUCTION: Internetworking concepts and architecture model – classful Internet address – CIDR – Subnetting and Supernetting – AARP – RARP- IP- IP Routing – ICMP – IPV6.

UNIT II [10 Hours]

TCP: Services – header – connection establishment and termination – interactive data flow bulk data flow – timeout and retransmission – persist timer – keep alive timer – futures and performance.

UNIT III [10 Hours]

IP IMPLEMENTATION: IP global software organization – routing table – routing algorithms – fragmentation and reassembly – error processing (ICMP) – Multicast Processing(IGMP).

UNIT IV [10 Hours]

TCP IMPLEMENTATION I: Data structure and input processing – transmission control blocks – segment format – comparison – finite state machine implementation Output processing – mutual exclusion – computing the TCP Data length.

UNIT V [10 Hours]

TCP IMPLEMENTATION II: Timers – events and messages – timer process – deleting and inserting timer event – flow control and adaptive retransmission – congestion avoidance and control – urgent data processing and push function.

Reference

1. Douglas E Comer, "Internetworking with TCP/IP Principles, Protocols and Architecture", Vol 1 and 2, Vth Edition, 2006.
2. W. Richard Stevens "TCP/IP Illustrated" Vol 1. 2003.
3. Forouzan, "TCP/IP Protocol Suite" Second Edition, Tate MC Graw Hill, 2003.
4. W. Richard Stevens "TCP/IP Illustrated" Volume 2, Pearson Education 2003

MCA6E10: CLOUD COMPUTING

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [10 Hours]

Introduction: Essentials, Benefits and need for Cloud Computing - Business and IT Perspective - Cloud and Virtualization - Cloud Services Requirements - Cloud and Dynamic Infrastructure - Cloud Computing Characteristics Cloud Adoption. Cloud Models: Cloud Characteristics - Measured Service - Cloud Models - Security in a Public Cloud Public versus Private Clouds.

UNIT - II [6 Hours]

Cloud Infrastructure Self Service. Cloud as a Service: Gamut of Cloud Solutions - Principal Technologies - Cloud Strategy Cloud Design and Implementation using SOA - Conceptual Cloud Model - Cloud Service Defined.

UNIT – III [14 Hours]

Cloud Solutions: Cloud Ecosystem - Cloud Business Process Management - Cloud Service Management - Cloud Stack - Computing on Demand (CoD) – Cloud sourcing. Cloud Offerings: Information Storage, Retrieval, Archive and Protection - Cloud Analytics Testing under Cloud - Information Security - Virtual Desktop Infrastructure - Storage Cloud. Cloud Management: Resiliency – Provisioning - Asset Management - Cloud Governance - High Availability and Disaster Recovery - Charging Models, Usage Reporting, Billing and Metering.

UNIT – IV [10 Hours]

Cloud Virtualization Technology: Virtualization Defined - Virtualization Benefits - Server Virtualization - Virtualization for x86 Architecture - Hypervisor Management Software - Logical Partitioning (LPAR) - VIO Server - Virtual Infrastructure Requirements. Cloud Virtualization: Storage virtualization - Storage Area Networks - Network-Attached storage - Cloud Server Virtualization - Virtualized Data Center.

UNIT – V [12 Hours]

Cloud and SOA: SOA Journey to Infrastructure - SOA and Cloud - SOA Defined - SOA and IaaS - SOA-based Cloud Infrastructure Steps - SOA Business and IT Services. Cloud Infrastructure Benchmarking: OLTP Benchmark - Business Intelligence Benchmark - e- Business Benchmark - ISV Benchmarks - Cloud Performance Data Collection and Performance Monitoring Commands - Benchmark Tools.

Reference

1. *Cloud Computing – Insight into New Era Infrastructure*, Dr. Kumar Saurabh, Wiley India, 2011.
2. *Cloud Computing*, Roger Jennings, Wiley India, 2009.
3. *Cloud Computing Explained*, John Rhoton, Recursive Press, 2009.
4. *Cloud Computing Bible*, Barry Sosinsky, Wiley, 2011.
5. *Cloud Computing: Principles and Paradigms*, Rajkumar Buyya, James Broberg, Wiley, 2011.
6. *Cloud Computing for Dummies*, Judith Hurwiz, Wiley Publishing, 2009.
7. *The Cloud at your service*, Rosenberg and Matheos, Manning Publications, 2010.

MCA6E11: STORAGE AREA NETWORK

Total Teaching Hours: 52

No. of Hours /Week: 04

UNIT – I [10 Hours]

Introduction: Server Centric IT Architecture and its Limitations; Storage – Centric IT Architecture and its advantages. Case study: Replacing a server with Storage Networks
The Data Storage and Data Access problem; The Battle for size and access.

UNIT – II [12 Hours]

Intelligent Disk Subsystems: Architecture of Intelligent Disk Subsystems; Hard disks and Internal I/O Channels; JBOD, Storage virtualization using RAID and different RAID levels; Caching: Acceleration of Hard Disk Access; Intelligent disk subsystems, Availability of disk subsystems. I/O Techniques: The Physical I/O path from the CPU to the Storage System; SCSI; Fibre Channel Protocol Stack; Fibre Channel SAN; IP Storage.

UNIT – III [10 Hours]

Network Attached Storage: The NAS Architecture, The NAS hardware Architecture, The NAS Software Architecture, Network connectivity, NAS as a storage system. File System and NAS: Local File Systems; Network file Systems and file servers; Shared Disk file systems; Comparison of fibre Channel and NAS.

UNIT – IV [10 Hours]

Storage Virtualization: Definition of Storage virtualization; Implementation Considerations; Storage virtualization on Block or file level; Storage virtualization on various levels of the storage Network; Symmetric and Asymmetric storage virtualization in the Network. SAN Architecture and Hardware devices: Overview, Creating a Network for storage; SAN Hardware devices; The fibre channel switch; Host Bus Adaptors; Putting the storage in SAN; Fabric operation from a Hardware perspective.

UNIT – V [10 Hours]

Software Components of SAN: The switch's Operating system; Device Drivers; Supporting the switch's components; Configuration options for SANs. Management: Planning Business Continuity; Managing availability; Managing Serviceability; Capacity planning; Security considerations.

Reference

1. *Ulf Troppens, Rainer Erkens and Wolfgang Muller: Storage Networks Explained, Wiley India, 2007.*
2. *Marc Farley: Storage Networking Fundamentals – An Introduction to Storage Devices, Subsystems, Applications, Management, and File Systems, Cisco Press, 2005.*
3. *Robert Spalding: “Storage Networks The Complete Reference”, Tata McGraw-Hill, 2003.*
4. *Richard Barker and Paul Massiglia: “Storage Area Network Essentials A Complete Guide to understanding and Implementing SANs”, Wiley India, 2006.*

MCA6E12: Data Mining

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [10 Hours]

Data Warehousing: Overview, Definition, Delivery Process, Difference between Database System and Data Warehouse, Multi-Dimensional Data Model, Data Cubes, Stars, Snow Flakes, Fact Constellations, Concept hierarchy, Process Architecture, 3 Tier Architecture, Data Marting.

UNIT -II [10 Hours]

Aggregation, Historical information, Query Facility, OLAP function and Tools. OLAP Servers, ROLAP, MOLAP, HOLAP, Data Mining interface, Security, Backup and Recovery, Tuning Data Warehouse, Testing Data Warehouse.

UNIT – III [10 Hours]

Overview, Motivation(for Data Mining),Data Mining-Definition & Functionalities, Data Processing, Form of Data Preprocessing, Data Cleaning: Missing Values, Noisy Data,(Binning, Clustering, Regression, Computer and Human inspection),Inconsistent Data, Data Integration and Transformation. Data Reduction:-Data Cube Aggregation, Dimensionality reduction, Data Compression, Numerosity Reduction, Clustering, Discretization and Concept hierarchy generation.

UNIT– IV [10 Hours]

Concept Description:- Definition, Data Generalization, Analytical Characterization, Analysis of attribute relevance, Mining Class comparisons, Statistical measures in large Databases. Measuring Central Tendency, Measuring Dispersion of Data, Graph Displays of Basic Statistical class Description, Mining Association Rules in Large Databases, Association rule mining, mining Single-Dimensional Boolean Association rules from Transactional Databases– Apriori Algorithm, Mining Multilevel Association rules from Transaction Databases and Mining Multi-Dimensional Association rules from Relational Databases

UNIT – V [12 Hours]

Classification and Predictions: What is Classification & Prediction, Issues regarding Classification and prediction, Decision tree, Bayesian Classification, Classification by Back propagation, Multilayer feed-forward Neural Network, Back propagation Algorithm, Classification methods K- nearest neighbor classifiers, Genetic Algorithm. Cluster Analysis: Data types in cluster analysis, Categories of clustering methods, Partitioning methods. Hierarchical Clustering- CURE and Chameleon. Density Based Methods-DBSCAN, OPTICS. Grid Based Methods- STING, CLIQUE. Model Based Method –Statistical Approach, Neural Network approach, Outlier Analysis

Reference

1. M.H.Dunham, "Data Mining: Introductory and Advanced Topics" Pearson Education, 2013
2. Jiawei Han, Micheline Kamber, "Data Mining Concepts & Techniques" Elsevier, 2013.

3. *Sam Anahory, Dennis Murray, "Data Warehousing in the Real World: A Practical Guide for Building Decision Support Systems, 1/e", Pearson Education. 2009.*
4. *Mallach, "Data Warehousing System", McGraw–Hill, 2008.*

MCA6E13: BIG DATA ANALYTICS

Total Teaching Hours: 52

No. of Hours / Week: 04

UNIT – I [12 Hours]

UNDERSTANDING BIG DATA: What is big data – why big data, Data Storage and Analysis, Comparison with Other Systems, Rational Database Management System , Grid Computing, Volunteer Computing, convergence of key trends – unstructured data – industry examples of big data – web analytics – big data and marketing – fraud and big data – risk and big data – credit risk management – big data and algorithmic trading – big data and healthcare – big data in medicine – advertising and big data – big data technologies – introduction to Hadoop – open source technologies – cloud and big data – mobile business intelligence – Crowd sourcing analytics – inter and trans firewall analytics

UNIT- II [10 Hours]

NOSQL DATA MANAGEMENT: Introduction to NoSQL – aggregate data models – aggregates – key-value and document data models – relationships – graph databases – schema less databases – materialized views – distribution models – sharding – version – Map reduce – partitioning and combining – composing map-reduce calculations

UNIT -III [10 Hours]

BASICS OF HADOOP: Data format – analyzing data with Hadoop – scaling out – Hadoop streaming – Hadoop pipes – design of Hadoop distributed file system (HDFS) – HDFS concepts – Java interface – data flow – Hadoop I/O – data integrity – compression – serialization – Avro – file-based data structures

UNIT –IV [10 Hours]

MAPREDUCE APPLICATIONS: MapReduce workflows – unit tests with MRUnit – test data and local tests – anatomy of MapReduce job run – classic Map-reduce – YARN – failures in classic Map-reduce and YARN – job scheduling – shuffle and sort – task execution – MapReduce types – input formats – output formats

UNIT- V [10 Hours]

HADOOP RELATED TOOLS: Hbase – data model and implementations – Hbase clients – Hbase examples –praxis. Cassandra – Cassandra data model – cassandra examples – cassandra clients –Hadoop integration. Pig – Grunt – pig data model – Pig Latin – developing and testing Pig Latin scripts. Hive – data types and file formats – HiveQL data definition – HiveQL data manipulation – HiveQL queries.

Reference

1. Tom White, "Hadoop: The Definitive Guide", Third Edition, O'Reilley, 2012.
2. Eric Sammer, "Hadoop Operations", O'Reilley, 2012.
3. Vignesh Prajapati, *Big data analytics with R and Hadoop*, SPD 2013.
4. E. Capriolo, D. Wampler, and J. Rutherglen, "Programming Hive", O'Reilley, 2012.
5. Lars George, "HBase: The Definitive Guide", O'Reilley, 2011.
6. Alan Gates, "Programming Pig", O'Reilley, 2011.

MCA603P: Main Project

The students are supposed to develop a main – project for above mentioned lab. The students should do the individual project. A project report must be submitted by each student. The students needs to carry out the project for four days in a week, and two days needs to attend the classwork.

BANGALORE UNIVERSITY
MCA PROGRAMME
Open Elective: “Cyber Space”

Total Teaching Hours: 52

No. of Hours / Week: 04

Objectives:

To understand cyber space, social media in cyber space, advantages, disadvantages, IT Act 2000/2008, Digital Signature, Electronic Signature, e-commerce, and e-governance

UNIT-I [20 Hours]

Basics of internet, www, http, html, DNS, IP Address, electronic mail, web browsers, search engines, Social Media: Twitter, Facebook, Youtube, whatsapp, LinkedIn, advantages, disadvantages, privacy issues

UNIT-II [10 Hours]

e-commerce, advantages of e-commerce, survey on popular e-commerce sites

UNIT-III [10 Hours]

Introduction to e-governance, stages of e-governance, advantages, challenges, International Status, Indian status

UNIT-IV [12 Hours]

IT Act, 2000 salient features, digital signature, electronic signature, Cyber Appellate Tribunal, Adjudicator, offences, and penalties.

Reference

1. *Information Technology Amended Act, 2008, Ministry of Law and Justice, Government of India.*
2. *SrinivasBhogle, “E-Governance” Chapter III in Selected Readings on Information Technology Management : Contemporary Issues, Information Science reference, Hershey, New York, page no. 40-61.*
3. *Tom Huskerson. Social Media, the Good, Bad, and Ugly: Volume. 3. 2014*
4. *RitendraGoel. “e-commerce”, New Age International Publishers, 2008*
5. *Dougals E Comer. Computer Network and Internet. Pearson, 2008*

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

List of lessons for IV Semester B. A. and other Arts courses

Course Book

DRAMA

- 1. *Loyalties* by Galsworthy

POETRY

- 1. *Bonsai* by Biraja Bal
- 2. *Theme for English B* by Langston Hughes
- 3. *Pied Beauty* by G M Hopkins.
- 4. *I AM TERRIBLY SORRY* by Ogden Nash
- 5. *Elemental* by D H Lawrence.
- 6. *Preludes ** by T S Eliot (Poem for extended reading only)
- 7. Extract from Shakespeare's play: 'Sleep Walking Scene' from *Macbeth*.

List of lessons for IV Semester B Sc and other Science courses

Course Book

DRAMA

- Silence! The Court is in Session* by Vijay Tendulkar

POETRY

- 1. Brecht and Buddha by K Satchidanandan
- 2. Work by D H Lawrence.
- 3. Vultures by Chinua Achebe
- 4. Tongue by Imtiaz Dharker
- 5. Anything Can Happen by Abhay Narayan Naik
- 6. Ode to Autumn* by Keats (Poem for extended reading only)
- 7. From Shakespeare's play : Shylock's Defence (*The Merchant of Venice*, Act I, Sc 1 lines, 43-63)

Work Book

- 1. Narrative into dialogue based on a given situation.
- 2. Interview: how to face an interview, various types of interview; interview for jobs and appraisal; interviewing someone on a given topic/issue; asking questions.
- 3. Presentation skills: How to prepare notes and slides; importance of body language, demonstration/practice in classrooms in oral presentation; introducing someone based on one's bio-data.
- 4. Writing project report; bibliography, acknowledgements and references.

List of lessons for IV Semester B. Com and other Commerce courses

Course Book

DRAMA

Where There is a Will

by Mahesh Dattani

POETRY

- 1. Sonnet (no. 12) by Shakespeare
- 2. No More Hiroshimas by James Kirkup
- 3. Ethics by Linda Pasten
- 4. Australia by A D Hope
- 5. Two Tramps in Mud Time by Robert Frost
- 6. The Second Coming by W B Yeats
- 7. Fredrick Douglas* by Robert E Hayden (poem for extended reading only)

***Please note that the marked poems are for extended reading only.**

BANGALORE UNIVERSITY

Soft Skills ('Mrudu Kousalya') Paper

Vth Semester, B.Com/BBA/BHM/5 Year Integrated Course in Commerce from 2016-17

CULTURE, DIVERSITY AND SOCIETY

2 Credits

Max. Marks: 100

Hours of Teaching: 42

Objectives

- To help B.Com/BBA/BHM/5 Year Integrated Course in Commerce students gain a better understanding and comprehension of Indian Culture, Diversity and Society.
- To instil in the students a healthy respect for the rich diversity in Indian society and culture.
- To help them understand the problems of rural society.
- To develop in them the secular values of tolerance, communal amity and peaceful co-existence.
- To help them address the contemporary challenges before Indian society like communalism, ethnocentrism and gender discrimination.
- To remind the youth that they have a key role to play in the promotion of national integration, and in promoting the unity and integrity of the country.

Syllabus

Unit-1: Understanding the Diversity of Indian Society

(12-14 Hours)

- Geographical diversity. 5 Hrs.
- Religious diversity. 3 Hrs.
- Cultural diversity. 2 Hrs.
- Unity in Diversity. 2 Hrs.

Unit-2: Family, Caste, Village and Women in India

(12-14 Hours)

- Family as a basic institution of Indian Society; Indian family in transition. 3 Hrs.
- Social stratification and disparities; the Caste System and its evils; the predicament of the weaker sections: Scheduled Castes and Tribes; Backward Classes and Religious Minorities. 4 Hrs.
- Rural society and its problems; Rural-Urban migration. 3 Hrs.
- Gender Discrimination; Violence against women; Measures to improve the status of women. 3 Hrs.

Unit-3: Contemporary Challenges before Indian Society	(12-14 Hours)
• Communalism and Religious Fundamentalism.	2 Hrs.
• Regionalism and Ethnocentrism.	2 Hrs.
• Globalization and mono-culturalism; <i>McDonaldization</i> .	2 Hrs.
• Child labour; Migrant labour; Bonded labour; Contract labour.	4 Hrs.
• Mass Media and its impact on society.	2 hrs.

Reference List

- Beteille, Andre, *Social Inequality*, New Delhi, OUP, 1974.
 - Bose, N.K., *Culture and Society in India*, Bombay, Asia Publishing House, 1967.
 - Deshpande, Satish, ed., *The Problem of Caste*, Orient Blackswan, 2014.
 - Dube, S.C., *Indian Village*, London, Routledge, 1955.
 - Dube, S.C., *Society in India*, New Delhi, National Book Trust, 1990.
 - Jodhka, Surinder, *Village Society*, Orient Blackswan, 2012.
 - Lannoy, Richard, *The Speaking Tree: A Study of Indian Society and Culture*, New Delhi, OUP, 1971.
 - Majumdar, D.N., *Races and Cultures of India*, Bombay, Asia Publishing House, 1958.
 - Mukherjee, D.P. *Diversities*, Delhi, People's Publishing House, 1958.
 - Satyamurty, T.V., *Region, Religion, Caste, Gender and Culture in Contemporary India*, New Delhi, OUP, 1996.
 - Srinivas, M.N., *India: Social Structure*, New Delhi, Hindustan Publishing Corporation, 1980.
-

Scheme of Examination

End-Semester Examination:	70 marks
Internal Assessment:	30 marks (Test/s: 20 marks; Seminar: 5 marks; Project: 5 marks)
Total:	<u>100 marks</u>

Question Paper Pattern for End-Semester Examination

- a. 40 Multiple-Choice Questions x 1 mark = 40 marks
 - b. 15 Multiple-Choice Questions x 2 marks = 30 marks
- Total = 70 marks**
-

Eligibility for Teaching

The Paper shall be taught by a qualified Post-Graudate teacher from the Arts/Social Sciences/Humanities faculty, preferably from the Department of Sociology. If the Sociology teachers are available in the College, it shall be taught by them. If the Sociology teachers are not available, other faculty from the Arts/Social Sciences/Humanities can teach the Paper.

B.A/B.Sc, B.Sc [P.A.O] B.A / 5 years. Integrated
course in Biological science under
Ardu kousalya. for VI semester.

COMPUTER APPLICATION & INFORMATION TECHNOLOGY

Total No of hours :42

Unit I: Database definition, objective of Database, DBMS, features of DBMS, Data models, DBMS Software, creating, editing, monitoring, searching and sorting databases, creating and printing formatted reports, designing custom screen display, multiple data files, executing queries. Introduction to MS-Word, Advantage and features of word processor. Operations and applications of word processor, MS-word menus, advanced MS-word function. Introduction to MS-Excel, views of MS-Excel, features and functions of MS-Excel. Introduction to MS-Access, features of MS-Access. Functions and features of presentation package (MS-PowerPoint), views of MS-Power point. Introduction to Internet, Internet services, use of Browsers, HTML and E-mail functionality. Introduction to DTP Software Package, flash, Dream viewer, Adobe-pdf. (16 hrs)

Unit II: Introduction to information system- MIS, EIS, TPS, DSS, expert systems, Accounting Information system, ERP and cloud computing. Cyber crimes and cyber terrorism- Cyber crimes and the categories of crime such as Cyber frauds, Cyber thefts, Cyber stacking, Cyber Terrorism and Hacking. IT-Governance Risk and compliance – CMM (Capability Maturity Model), Control objectives for information and related technology (COBIT). (12hrs)

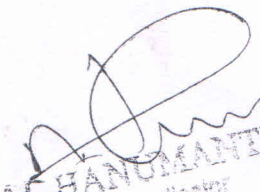
Unit III : Electronic contracting, digital signature, E-Commerce, threats in e-commerce, Encryption overview, Elements of an encryption system, secret key encryption, public key encryption, Smart-cards and its applications, E-Banking, types of Electronic fund transfer, Risk of electronic payment system. Salient features of IT Act – 2000- Definitions, Electronic record and digital signature authentication, Various authorities under IT Act and their powers, Penalties, Offences.(14hrs)

Note : No commands should be asked in the question paper.

Reference books :

- 1) Data Base concepts by Abraham Siberschartz, Heriry F Korth ,S.Sudarshan. – Tata Mc Growhill 3rd Edition
- 2) Microsoft office professional – 2013 step by step -- Microw soft press
- 3) MS –Office reference guide , by ToonBunzel
- 4) A Management Information Systems , by 'O'Brien James --- Tata Mc Graw Hill, New Delhi.
- 5) Management information Systems by Gordan B Davis --- McGraw Hill
- 6) Information Syastems Control & Audit , by Weber, --- Pearson Education, India.

Note: Model question paper will submitted later.


Dr. M. HANUMANTHAPPA
Coordinator
MCA Programme
Campus Bangalore University
No. 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

BANGALORE UNIVERSITY

CREATIVITY AND INNOVATION

**B.Com/BBA/BHM/5 years Integrated Course in Commerce for VI Semester under
Mrudukousalya.**

Max Marks: 100

Max time: 42 hrs.

Objectives

1. To give an insight into creativity and innovation
2. To develop an appreciation for them among students, and
3. To enhance sensitivity to creativity and innovation

Module 1: Overview of Creativity

10 Hours

Meaning and concept of creativity - Creativity Process- Nature and characteristics of creativity – Factors affecting creativity – understanding creativity from studying the profiles of most creative personalities.

Module 2: innovation Management

20 Hours

Meaning and Importance – Difference with Creativity, Invention and Discovery – Process – Typology – Case Studies on Innovation business ideas like Red bus, Flip fart, Ola, Big Basket, methods and techniques – organizational Aspects – Economic Aspects like venture capital, angel investors – Evaluation of Effectiveness of Innovation – Legal Aspects like IPR, patent etc.

Pedagogy

The pedagogy needs to explore the following

- Videos on You tube
- Case studies
- Interaction with creative persons and Innovators
- Demonstration by students.

Module 3: Creativity and various Forms of Arts

12 Hours

Understanding the forms and characteristics of Various Painting Traditions (cave paintings, Ajanta murals, Indian miniatures, Traditional & Folk Arts), Sculpture (Indian sculpture & Temple architecture), contemporary Art forms – Art & Architecture (Photography, Films, Graphic Animation and Digital Art), Performing Arts (Music, Dance and Theatre), and Poetry & Literature with examples.

References Books

- Vinnie Jauhari & Sudhanshu Bhushan, "Innovation Management". Oxford University Press, 2014
- Sholmo Maital, DVR Seshadri, "Innovation Management", Response Books 2007
- Indian Art by Partha Mitter
- Art of India pre- history to present by Frederick M. Asher
- Contemporary Indian Art and other realities by Yashodara Dalmia

Websites

- www.redbus.in
- www.olacabs.com
- www.flipkart.com
- www.bigbasket.com
- Performing Arts- Wikipedia
- Digital Art- Wikipedia
- Graphics and Animation - Wikipedia
- Browse Wikipedia as and when necessary



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BANGALORE UNIVERSITY

ENTREPRENEURSHIP AND INNOVATION

**BA, B.Sc, B.Sc. (FAD), BCA/5 years Integrated Course in Biological Science for VI Semester
under Mrudukousalya.**

Max Marks: 100

Max time: 42 hrs.

Objective

To give a glimpse of Entrepreneurship to students as well as to develop basic understanding of Innovation in Entrepreneurship.

Module 1: Overview of Entrepreneurship

19 Hours

Concept of Entrepreneurship and Entrepreneur-Nature and Importance-Benefits and potential risks of Entrepreneurship – Traits, qualities and competencies of an Entrepreneur – Types of Entrepreneurs – Role of technology in contemporary business environment – Ethics and Entrepreneurship. Govt. of India initiatives like Make in India, Start – up India, Mudra Bank etc.

Module 2 : Overview of Innovation

14 Hours

Meaning and Importance – Difference with Creativity, Invention and Discovery-Process-Typology – Innovation in Action like lateral thinking, out of box thinking, Disruptive ideas – Case Studies on Innovative business ideas like Red bus, Flip kart, Ola, Big Basket etc

Module 3 : New venture creation

9 Hours

New ideas and opportunities: Developing business ideas, evaluating the opportunity – Feasibility analysis – Developing business model.

Business plan-Meaning, significance and contents – Formulation and Presentation – Common errors – Preparation of project report.

Sources of finance: Traditional and Non-traditional sources – Venture capitalists, Angel Investors, Private equity cash.

Pedagogy

The syllabus has to be taught through following methods

- Exercises
- Case studies
- Interaction with Entrepreneurs and Innovators
- Presentations by students

References

Books

- Dr.S.S.Khanka, "Entrepreneurial Development", S.Chand Publications.
- Dr.C.B.Gupta and Dr.N.P.Srinivasan. "Entrepreneurship Development in India", S.Chand Publications.
- Vinnie Jauhari& Sudhanshu Bhushan, "Innovation Management". Oxford University Press,2014
- SholmoMaital, DVR Seshadri, "Innovation Management". Response Books 2007

Websites

- www.redbus.in
- www.olacabs.com
- www.flipkart.com
- www.bigbasket.com
- startupindia.gov.in
- www.makeinindia.com
- www.pradhanmantriyojana.in
- Browse Wikipedia as and when necessary



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VALUE EDUCATION

Objectives:

1. To familiarize the students with value concepts.
2. To make the students aware of different types of values.
3. To enable students to understand the values in global scenario.
4. To enable students to inculcate values in day to day life.
5. To make the students to understand and respect to human rights.

Unit-1

Meaning of value education, need and purpose of value education, significance of value education in present context, different types of values, Role of family, society, and institutions in inculcation of values.

Value education towards human development, human values, concept of human values, personal development-ways to improve 'personality, sensitization' of people towards differently-able people, women and child, character formation towards positive personality.

Unit-2

Value education for national and global development, national and constitutional values, national integration and international understanding

Human rights- universal declaration of human rights, classification of human rights, human rights of women and children- social practice and constitutional safeguards.

Unit-3

Environmental and ecological balance- significance, need and importance, Biodiversity, prevention and preservation of natural resources.

References:

6. Das, M.S. & Gupta, V.K. : Social Values among Young adults: A changing Scenario, M.D. Publications, New Delhi, 1995
7. Bandiste, D.D.: Humanist Values: A Source Book, B.R. Publishing Corporation, Delhi, 1999
8. Ruhela, S.P. : Human Values and education, Sterling Publications, New Delhi, 1986

9. Kaul, G.N.: Values and Education in Independent Indian, Associated Publishers, Mumbai, 1975
8. NCERT, Education in Values, New Delhi, 1992.
10. Daniel and Selvamony - Value Education Today, (Madras Christian College, Tambaram and ALACHE, New Delhi, 1990)
11. T. Anchukandam and J. Kuttainimathathil (Ed) Grow Free Live Free, Krisitu Jyoti Publications, Bangalore (1995)
12. N. Venkataiah **Value Education**, APH Publication, new delhi, 2007

VALUE EDUCATION

Objectives:

1. To familiarize the students with value concepts.
2. To make the students aware of different types of values.
3. To enable students to understand the values in global scenario.
4. To enable students to inculcate values in day to day life.
5. To make the students to understand and respect to human rights.

Unit-1

Meaning of value education, need and purpose of value education, significance of value education in present context, different types of values, Role of family, society, and institutions in inculcation of values.

Case

Value education towards human development, human values, concept of human values, personal development-ways to improve 'personality, sensitization' of people towards differently-able people, women and child, character formation towards positive personality.

Unit-2

Value education for national and global development, national and constitutional values, national integration and international understanding

Case

Human rights- universal declaration of human rights, classification of human rights, human rights of women and children- social practice and constitutional safeguards.

Unit-3

Environmental and ecological balance- significance, need and importance, Biodiversity, prevention and preservation of natural resources.

References:

6. Das, M.S. & Gupta, V.K. : Social Values among Young adults: A changing Scenario, M.D. Publications, New Delhi, 1995
7. Bandiste, D.D.: Humanist Values: A Source Book, B.R. Publishing Corporation, Delhi, 1999
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12. N. Venkataiah **Value Education**, APH Publication, new delhi, 2007

SYLLABUS & REGULATIONS
FOR
B.COM HONOURS COURSE UNDER THE
CHOICE BASED CREDIT SYSTEM -2017



Department of Commerce
Bangalore University
Bengaluru

B.COM HONOURS UNDER THE CHOICE BASED CREDIT SYSTEM

I. OBJECTIVE

The Broad objective of the Bachelor of Commerce Honors Course is to impart to the Students, Professional education and Training in Various aspects of business and its environment and provide them with opportunities to develop conceptual , practical, research and analytical business skills in order to meet the challenges of business, Industry and education at the national and Global level.

II. ELIGIBILITY FOR ADMISSION

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course and has secured not less than 50% of the marks in the aggregate shall be eligible for admission to the course. In the case of SC/ST students and blind students, the minimum percentage of marks required is 45%.

III. DURATION OF THE COURSE

The course of study is three (03) years of Six Semesters.

IV. MEDIUM OF INSTRUCTION & CLASS ROOM STRENGTH OF STUDENTS

The medium of instruction shall be English and there shall be Maximum of 60 students in each section.

V. ACADEMIC CALENDAR

The course is spread over six semesters.

1. The odd semesters will commence in June / July.
2. The even semesters will commence immediately after the completion of the odd End Semester Examination (ESE).
3. Each semester will be for a duration of 19 weeks – 15 weeks for teaching, one week for mid semester tests and three weeks for end semester examination.

VI. ATTENDANCE

- a) For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b) A student shall be considered to have satisfied the requirement of attendance for the semester, if she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c) A student who fails to complete the course in the manner stated above shall not be permitted to take the semester final examination.
- d) Students representing the college / departmental activities will be granted attendance for the actual hours of participation.

VII. TEACHING AND EVALUATION

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective Board of Studies.

VIII. SCHEME OF EXAMINATION

a. There shall be a examination at the end of each semester. The maximum marks for examination in each paper shall be 70.

b. The marks based on attendance shall be awarded as given below:

- 75% to 80% = 02 marks.
- 81% to 85% = 03 marks.
- 86% to 90% = 04 marks.
- 91% to 100% = 05 marks.

c. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

Assessment will be based on the performance of the candidate throughout the semester or the academic year as the case may be giving due consideration to the following components - *Knowledge, Skill, Application, Understanding of concepts and Creativity*. Assessment pattern for each paper will be done as follows.

Each paper will be for a maximum of 100 marks as shown below:

Particular	Internal Assessment	Theory Exam	Total
Subjects with Practical's	15 CIA 15 Practical's*	70	100
Subjects without Practical's	30 CIA	70	100

*Practical Exam

For subjects with Practical's, the internal assessment marks of 30 will be based on practical examination conducted at end of the semester carrying 15 marks and the CIA carrying 15 marks.

Continuous Internal Assessment (CIA) includes:

- 1st Test : 15 Marks
- Projects, Assignments, Presentations : 10 marks
- Current Affairs and News Analysis : 5 marks
- Total 30 Marks**

End Semester Examinations (ESE)

- ✓ There will be an end semester examination for the theory as well as practical papers.
- ✓ The question papers shall be set by the internal and external examiners from out of the panel suggested by the board of the studies. One of the papers is to be selected at random. All practical examinations will have two examiners – one external examiner and internal examiner.

For subjects having Practical Examinations (Information systems & Computers related) the marks allotment is as follows:

End semester practical examination	:	5 Marks
Viva voce examination	:	5 Marks
Record	:	5 Marks
Total Marks for Practical	:	15 marks

- ✓ The external examiner for the practical examinations can be from outside the college or a member of the faculty not handling the class, selected from the panel of examiners suggested by the board of studies.
- ✓ The second examiner will be an internal examiner.

Valuation:

- ✓ There shall be double valuation of the answer scripts, project report and field work papers of the ESE. One by the external examiner and other by the internal examiner.
- ✓ The average marks awarded by the internal and external examiners shall be taken as the marks obtained. However if there is difference of 20% or more in the marks awarded by the internal and the external examiners, the answer script shall be referred to the third examiner (who shall be an external) and the average of the nearest two shall be considered for the award of the marks.
- ✓ Re-total - A student who desires to challenge the marks awarded to her in any paper of ESE or asking for the re-totalling may do so by submitting an application along with the prescribed fee to the COE within 7 days of the declaration of the results. In case of challenge valuation the answer script shall be referred to the board of examiners for the final evaluation. The marks awarded by the board shall be final and binding.

IX. APPEARANCE FOR THE EXAMINATION

- A candidate shall apply for all the parts in each examination when she appears for the first time. A candidate shall be considered to have appeared for the examination only if she has submitted the prescribed application for the examination along with the required fees to the university.
- A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if she has studied and passed the language at the corresponding level.
- Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.

d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

X. CORPORATE INTERNSHIP

1. The internship is to be carried out through the vacation at the end of the semesters. The report to be submitted in the next semester and evaluated for 50 Marks
2. The duration of the internship is 4 weeks.
3. The report must be certified by the Company for the internship done by the student.

XI. COMMUNITY DEVELOPMENT ACTIVITY

1. The 3rd semester students are required to identify and undertake a community development project activity
2. The students may work in groups and submit a report on the same at the end of the semester.
3. Feedback must be obtained from the target community/group so as to assess the student's performance.

Project Work:

- ✓ Each student will choose a research problem related to business or any other organization and carry out a project work during the V & VI semesters and submit the project report at the end of the each semester. This will be evaluated for 50 & 200 marks respectively and it includes both report and Viva -Voce. The board of examiners will conduct the viva-voce examination.

MINIMUM MARKS FOR A PASS

Candidates who have obtained a minimum of 40% marks in CIA examination and 50% in aggregate (i.e., total of end semester examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

PATTERN OF QUESTION PAPER

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition.

The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,h,i,j (Conceptual questions) Answer any Eight	(08 X 02 = 16 Marks)
SECTION -B: 2,3,4,5,6,7. (Analytical questions) Answer any Four	(04 X 06 = 24 Marks)
SECTION-C: 8,9,10,11. (Essay type questions) Answer any THREE	(03 X 10 = 30 Marks)

Total 70 Marks.

Ranking

- ✓ In all three ranks will be declared on the basis of CGPA of all the semesters put together.
- ✓ Students are not eligible for ranks under the following conditions
 - When they have failed in any paper in any of the semester.
 - When they have been booked for malpractice in any of the papers in any semesters.
 - When their conduct during the course of study is found to be unsatisfactory.
 - When they have not completed the prescribed credits.
 - When they have not participated in community projects.
 - When they have come on a transfer from some other institution with a different scheme of examination.

Issues of Marks Cards

- ✓ After the declaration of results of every semester students are provided with a marks statement issued by the college.

Award of the Degree

- ✓ On the recommendation of the academic council of the college the Bangalore University will award the degrees to the successful candidates.

Conduct of Examinations:

1. No candidate shall be admitted to the examination hall after 30 minutes of the commencement of the examination.
2. No candidate is allowed to leave the hall within 30 minutes of the commencement of the examination.

Malpractices:

1. Students indulging in malpractices i.e. possession of or accessible to papers, books, notes, or, any such other means which might possibly be of assistance to, or, have or found giving or receiving assistance, or copying from any paper, book or note, or allowing any other candidate to copy from her answer book, using or attempting to use any other unfair means, shall be debarred for a period which may extend to two academic years.
2. Mobile phones, palm tops, digital diaries are not permitted inside the exam hall. Anyone found possessing them will be debarred for a period of 2 academic years.

Grievances:

The candidates may convey their grievances if any to the concerned HODs in writing, which will be forwarded to the Controller of Examinations if it is genuine

Carryover of Papers:

Candidates should clear at least 50% of the papers of semester I in order to be eligible for the admission to the III semester and so on.

COURSE STRUCTURE AND SYLLABUS

Semester I

Paper	Paper title	Hours per week/Credits	CIA	End sem	Total marks
1.1	Language - I	4/2	30	70	100
1.2	Language – II : English	4/2	30	70	100
1.3	Financial Accounting	4/2	30	70	100
1.4	Indian Financial System	4/2	30	70	100
1.5	Management & Behavioural process	4/2	30	70	100
1.6	Corporate Law & Governance	4/2	30	70	100
1.7	Quantitative Analysis-1	4/2	30	70	100
1.8	Foundation Course*	3/2	30	70	100
1.9	CC & EC*	0/1	50	-	50
	Internship in Manufacturing Industry for four weeks Report to be submitted in II Sem.				
	Total Credits- 17				

Semester II

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
2.1	Language – I	4/2	30	70	100
2.2	Language – II : Business Communication	4/2	30	70	100
2.3	Corporate Accounting- 1	4/2	30	70	100
2.4	Quantitative Analysis-2	4/2	30	70	100
2.5	Banking Law and Operations	4/2	30	70	100
2.6	Cost Accounting-1	4/2	30	70	100
2.7	Market Behaviour and Cost analysis	4/2	30	70	100
2.8	Foundation Course*	3/2	30	70	100
2.9	CC & EC*	0/1	50	-	50
	Internship in service Industry (report to be submitted in II sem.)	-	-	-	50
	Total Credits- 17				

Semester III

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
3.1	Corporate Accounting-2	4/2	30	70	100
3.2	Financial Management	4/2	30	70	100
3.3	Business Data Analytics	4/2	30	70	100
3.4	Financial Reporting	4/2	30	70	100
3.5	Human Resource Management	4/2	30	70	100
3.6	Production & Operations Mgt.	4/2	30	70	100
3.7	Cost Accounting-2	4/2	30	70	100
3.8	Foundation Course*	3/2	30	70	100
3.9	CC & EC*	0/1	50	-	50
	Community Project				50
	Total Credits- 17				

Semester IV

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
4.1	Entrepreneurship Development	4/2	30	70	100
4.2	International Business	4/2	30	70	100
4.3	Income Tax	4/2	30	70	100
4.4	Marketing Management	4/2	30	70	100
4.5	E- Business	4/2	30	70	100
4.6	Business Information System	4/2	30	70	100
4.7	Stock and Commodity Markets	4/2	30	70	100
4.8	Foundation Course*	3/2	30	70	100
4.9	CC & EC*	0/1	50	-	50
	Small Business development project				50
	Total Credits- 17				

Semester V

Paper	Paper title	Hours per week/Credits	CIA	End Sem	Total marks
5.1	Management Accounting	4/3	30	70	100
5.2	Logistic and supply chain Management	4/3	30	70	100
5.3	Auditing	4/3	30	70	100
5.4	Elective – I	4/3	30	70	100
5.5	Elective – II	4/3	30	70	100
5.6	Elective – III	4/3	30	70	100
5.7	Elective- IV	4/3	30	70	100
5.8	Elective- V	4/3	30	70	100
5.9	SDC	3 /2	30	70	100
	Project work				50
	Total Credits- 26				

Semester VI

Paper	Paper title	Hours per week/ credits	CIA	End Sem	Total marks
6.1	Business Regulations	4/3	30	70	100
6.2	Quantitative techniques	4/3	30	70	100
6.3	Advanced Management Accounting	4/3	30	70	100
6.4	Elective – I	4/3	30	70	100
6.5	Elective – II	4/3	30	70	100
6.6	Elective – III	4/3	30	70	100
6.7	Elective- IV	4/3	30	70	100
6.8	Elective- V	4/3	30	70	100
6.9	SDC	3 /2	30	70	100
	Project Report		50 (Viva Voce)	100(Report)	150
	Total Credits-26				

ELECTIVES

ACCOUNTING & TAXATION GROUP

Advanced Accounting
Accounting Standards
Business Taxation
Corporate Tax Planning
Indirect Tax

FINANCE GROUP

International Finance
Strategic Financial Management
Corporate Financial Policy
Security Analysis & Portfolio Management
Financial Risk Management

BUSINESS INFORMATION AND TECHNOLOGY GROUP

Accounting Information Systems
Enterprise Resource Planning
Big Data Analytics
Information Technology and Audit
Banking Technology and Management

BANKING AND INSURANCE GROUP

International Banking & Forex Management
Life and General Insurance
Risk Management
Marketing of Insurance Products
Actuarial Science

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

- I. Constitution of Indian and Human Rights
- II. Environment and Public Health
- III. Computer Applications and Information Technology
- IV. Business Entrepreneurship and Management
- V. Philosophy, Psychology and Life Skills
- VI. Personality Development and Leadership / Integrating Mind, Body and Heart
- VII. Indian History, Culture and Diversity
- VIII. Research Methodology
- IX. Education and Literacy / Science and Life
- X. Human Resource Development .Management
- XI. One of the Foreign Languages such as German, French etc.
- XII. Any other Course prescribed by the College from time to time
- XIII. Commodity & Stock Market
- XIV. Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*) A student shall opt for any one of the following activities in the first four semesters offered in the college.

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the College/University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING (8 hrs)

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM (12 hrs)

Single entry system- Meaning – Features – Merits – Demerits – Types - Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM (12 hrs)

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only)

Unit 4: ROYALTY ACCOUNTS (12 hrs)

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and Lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY (12hrs)

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

1. List out various accounting concepts and conventions (GAAP)
2. List out Various Accounting Standards
3. Collecting & recording of Royalty agreement with regard to any suitable situation
4. Collecting and recording of Hire Purchase Agreement
5. Ascertainment of Cash Price and Interest with imaginary figures under Hire Purchase System

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarrajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit1: INDIAN FINANCIAL SYSTEM (10 hrs)

Pre-Nineties and Post-Nineties overview, Organizational structure of the Indian Financial System- Major Components- Financial Markets; Financial Institutions/ Intermediaries; Financial Instruments, Mutual Fund- Concept, Advantages of MF, History of MFs in India, Management of MF.

Unit 2: REGULATORY AND PROMOTIONAL INSTITUTIONS (6 hrs)

Reserve Bank of India, Securities and Exchange Board of India, IRDA, - Objectives and functions of RBI, SEBI and IRDA

Unit 3: PRIMARY MARKET (10 hrs)

Public Issue, Right Issue and Private Placement, Steps in Public Issue, Steps and Role of various agencies in public issue-Merchant Bankers, Underwriters, Brokers, Bankers to the Issue, Registrar to the Issue, Promotional agencies, Opening and Closing of Issue, Allotment / Refund, Listing of securities, Concept of Book Building

Unit 4: STOCK EXCHANGE (10 hrs)

Definition, Overview of Stock Exchanges in India, Trading on NSE - Capital Market Segment and Wholesale Debt Market Segment, Trading system under Capital Market Segment, Order types, cash/margin trading, Rolling settlement. Role of Broker, Clearing House, Depository in trading,

Unit 5: INTRODUCTION TO E-TRADING (8 hrs)

Money Market - Meaning, Instruments, features of the instruments. . Credit Rating,- Concept, Credit Rating Agencies in India, Rating Methodology and process, Rating symbols for Debentures/Bonds.

Unit 6: BANKING, NBFC'S AND INSURANCE (12 hrs)

Functions of Commercial Banks, Concept of E-Banking, NPA, Securitization and Universal Banking, NBFC- Meaning, Major functions of NBFC, Insurance: Introduction to LIC, GIC and Private Insurance Companies.. Venture Capital - Concept, Objectives, Development of Venture Capital in India, Venture Capital Investment process, Dis-investment Mechanism.

SKILL DEVELOPMENT

1. Draft a chart showing the financial services in the Indian Financial System.
2. List the Instruments traded in the Financial Markets.
3. Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
4. Collecting and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
5. Specimen of Debit and Credit cards.
6. Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MANAGEMENT & BEHAVIORAL PROCESS

OBJECTIVE

The Objective of the course is to give a basic perspective of Management theories and practices. This will form foundation to study other functional areas of management. Also this course provides insight into behavioral issues.

Unit 1: INTRODUCTION TO MANAGEMENT (12 hrs)

Definition, Types of Managers, Mintzberg Managerial roles, Functions of Management, Administration vs. Management, Evolution of Management Thought – Planning: Nature of planning, Steps in planning, types of planning, Levels of planning – The Planning Process. Decision Making: The process and techniques of decision making.

Unit 2: ORGANIZING (14 hrs)

Nature of organizing, organization levels and span of management – Factors determining span – Organizational design and structure –departmentation, line and staff concepts, staffing – delegation, decentralization and recentralization of authority – responsive organizations. Meaning and types of power – Empowerment – Groups vs. Teams – Nature of groups –dynamics of informal groups – dysfunctions of groups and teams – Teams in modern work place.

Unit 3: INTRODUCTION TO ORGANIZATIONAL BEHAVIOR (12 hrs)

Definition, Nature and Scope – Environmental and organizational context and the impact on organizations – Perception: Nature and importance of Perception – Perceptual selectivity and organization, Attribution theory. Personality and Attitudes – Meaning of personality – Johari Window and Transactional Analysis – Nature and Dimension of Attitudes- Behavioral Modification

Unit 4: MOTIVATION AND LEADING (10 hrs)

Theories of Motivation-Maslow's need hierarchy, Herzberg's Two Factor Theory, Job design and Goal setting for High performance- Socio technical Design and High performance work practices. Leading: Leading Vs Managing – Leadership Theories- Leadership styles – developing leadership skills – transformational leaders, transactional leaders, Leadership in Cross-cultural environment – Evaluating Leader- Women and Corporate leadership.

Unit 5: COMMUNICATION AND CONTROL (8 hrs)

Meaning, Types of communication and barriers to effective communication in Organizations, Using Communication Skills to manage Conflicts. Controlling: Basic control process- Requirements for effective control – control techniques – Overall controls and preventive Controls.

SKILL DEVELOPMENT

1. Different types of Organization Charts (structure).
2. Chart on Staffing.
3. Graphic representation of Maslow's Theory.
4. Chart on Media of Communication.
5. Draft Control chart for different industries / business groups.

BOOKS FOR REFERENCE

1. Koontz, Weihrich & Aryasri: Principles of Management, TMH, New Delhi, 2009
2. Luthans, Fred: Organizational Behavior, 11/e, McGraw Hill, 2009
3. Stoner, Freeman and Gilbert: Jr. Management, Pearson, New Delhi, 2009.
4. Aryasri & VSP Rao: Management and Organizational Behavior, Excel, 2009
5. Kavitha Singh: Organizational Behavior, Pearson, 2009.
6. Kellogg: Conflict in Organizational Groups, Kogan Page, 2009
7. John M. Ivancevich: Organizational Behavior & Management, TMH, 2009
8. Schermerhorn: Management, Wiley 2009
9. Pierce and Gardner: Management and Organizational Behavior: An Integrated Perspective, Cengage, 2009.
10. BPP: Organizational Behavior, Viva, 2009
11. Aswathappa: Organizational Behavior, Himalaya, 2009
12. Certo and Certo: Modern Management, 10/e, PHI, 2009
13. R Satyaraju & A. Parthasarathy: Management Text and Cases, PHI, 2009.
14. Prem Vrat, K K Ahuja, P K Jain: Case Studies in Management, Vikas, 2006.

1.6 CORPORATE LAW & GOVERNANCE

OBJECTIVE

The objective is to enable the students to get familiarized with the existing Corporate Law and Governance.

Unit 1: CORPORATE PERSONALITY (6 hrs)

The Companies Act 1956 as repealed by Companies Act 2013, Definition of Company, Illegal association, Classes of companies.

Unit 2: FORMATION OF A COMPANY (10hrs)

Promoters – Incorporation - Memorandum of Association -Articles of Association.

Unit 3: CORPORATE FINANCING (10hrs)

Shares and debentures – Application and allotment of shares - members and Shareholders - Shares and share capital – Charges – Dividends – Borrowings and lending – Inter-Corporate Investments

Unit 4: CORPORATE GOVERNANCE (10hrs)

Directors – Meetings - Accounts and Audits – Auditors - Corporate Social Responsibility - Majority powers and minority rights - Prevention of oppression and mismanagement - Insider trading – Investigation.

Unit 5: MERGERS AND ACQUISITIONS, COMPROMISES (10hrs)

Winding up and kinds of winding up - Administration of NCLT and CLAT and Special Courts - Powers of liquidators

Unit 6: CORPORATE GOVERNANCE (10hrs)

Basic understanding of Corporate Governance under Companies Act 2013, Corporate governance practices in India, Tools for ensuring Governance:

- Cost Audit Methodology and Corporate Governance
- Internal Audit for Governance – nature, scope, function, planning process, investigation of fraud, internal audit reports
- Statutory Audit for Governance
- An introduction to e-governance and XBRL

SKILL DEVELOPMENT

1. Drafting of Memorandum of Association, Drafting Articles of Association.
2. Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
3. Drafting Resolutions of various meetings – different types.
4. Chart showing different types of Companies.
5. Collecting & recording the practice of corporate governance in India

BOOKS FOR REFERENCE

1. Dr. Avtar Singh - Company Law.
2. Gower & Davies – The Principles of Modern Company Law.
3. Ramaiah - Companies Act
4. Reddy Appaniah- Company Law
5. Raghavendra K S & Tamil Selvan, Corporate Administration, Thakur Publishers.

1.7 QUANTITATIVE ANALYSIS-1

OBJECTIVE

The objective is to provide basic knowledge of mathematics and their application to commercial situations.

Unit 1: NUMBER SYSTEM (6hrs)

Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems).

Unit 2: THEORY OF EQUATIONS (10hrs)

Introduction – Meaning - Types of Equations – Simple/ Linear Equations and Simultaneous Equations (only two variables), Elimination and Substitution Methods only. Quadratic Equation – Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Applications

Unit 3: MATRICES AND DETERMINANTS (14hrs)

Meaning – types – operation on matrices – additions – subtractions and multiplication of two matrices – transpose – determinants – minor of an element – co-factor of an element –inverse – crammers rule in two variables – application oriented problems.

Unit 4: COMMERCIAL ARITHMETIC (16hrs)

Simple Interest, Compound Interest including half yearly and quarterly calculations, Annuities, Percentages, Bills Discounting, Ratios and proportions, duplicate-triplicate and sub-duplicate of a ratio. Proportions: third, fourth and inverse proportion - problems.

Unit 5: PROGRESSIONS (10hrs)

Arithmetic Progression - Finding the „nth term of AP and Sum to nth term of AP. Insertion of Arithmetic Mean Geometric Progression – Finding the n'th term of GP and sum to „ n“ the term of GP and insertion of Geometric Mean.

SKILL DEVELOPMENT

1. Develop an Amortization Table for Loan Amount – EMI Calculation
2. Secondary overhead distribution summary using Simultaneous Equations Method
3. Preparation of Bank Statement
4. Application of Matrix In Business Problems

BOOKS FOR REFERENCE

1. Saha: Mathematics for Cost Accountants, Central Publishers
2. R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
3. Dr. Sancheti & Kapoor: Business Mathematics and Statistics, Sultan Chand
4. Zamarudeen: Business Mathematics, Vikas
5. R.S Bhardwaj :Mathematics for Economics & Business
6. Madappa, Mahadi Hassan, M. Iqbal Taiyab – Business Mathematics, Subhash
7. G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publishers

Semester II

2.2 BUSINESS COMMUNICATION

OBJECTIVE

The objective of this subject is to develop effective business communication skills among the students

Unit 1: CONCEPT OF COMMUNICATION (10hrs)

Meaning, Definition, Process, Need and Feedback- barriers to effective Communication- Importance of listening- emergence of Communication as a key concept in the Corporate and Global world - Impact of technological advancements on Communication

Unit 2: METHODS AND MODES OF COMMUNICATION (12hrs)

Methods: Verbal and Nonverbal- Characteristics of Verbal and Non-verbal Communication- body language – Etiquette and mannerism in personal and business meetings -Business Etiquette Modes: Telephone and SMS Communication- Telegram- Facsimile Communication [Fax] Computers and E- communication, Video and Satellite Conferencing.

Unit 3: BUSINESS CORRESPONDENCE (12hrs)

Theory of Business Letter Writing -- Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing Principles of effective Email Writing Business letters-Enquiry, placing orders, complaints, Persuasion of customers, credit collection, Bank related, Govt. related letters.

Personnel Correspondence – Statement of Purpose Job Application Letter and Resume Letter of Acceptance of Job Offer, Letter of Resignation ,Letter of Appointment, Promotion and Termination, Letter of Recommendation

Unit 4: LANGUAGE AND WRITING SKILLS (10hrs)

Paragraph Writing -Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc Interpretation of technical data, Composition on a given situation, a short informal report etc.

Unit 5: PRESENTATION SKILLS (12hrs)

Principles of Effective Presentation Effective use of OHP Effective use of Transparencies - How to make a Power-Point Presentation -Group Communication – Group discussion-Interviews – Group Discussion - Preparing for an Interview Types of Interviews – Selection, Appraisal, Grievance, Exit Meaning and Importance of Conference - Organizing a Conference Modern Methods: Video and Tele – Conferencing -Meetings -- Need and Importance of Meetings, Conduct of Meeting and Group Dynamics - Role of the Chairperson, Role of the Participants Drafting of Notice, Agenda and Resolutions

SKILL DEVELOPMENT

1. Extempore speeches, Just a Minute.
2. Conducting Stress Interviews.
3. Creative Exercise
4. Role play.

BOOKS FOR REFERENCE

1. R.O. Sharma & Krishna Mohan: Business Communication & Report Writing, TMH, New Delhi.
2. Raman. S & Swami. R: Business Communication – A Practical Approach, Professional Publications, Madras.
3. Ramesh & Pattanashetti: Effective Business English & Correspondence.
4. Sehgal/ Khetarpal- Business Communication
5. Majumdar: Commercial Correspondence.
6. Pink and Thomsan: English Grammar, Composition and Correspondence.
7. R.K. Madhukar : Business Communications, Vikas.
8. Bhardwaj : Fundamental of Business Communication, I.K. International Publishers
9. Kumar: Business Communication.
10. Bovee: Business Communication Today.
11. Sharma & others – Business Communications.
12. Rai Rai : Business Communication, HPH, Mumbai
13. Ritwik Haldar ; AT.B of Business Communication

2.3 CORPORATE ACCOUNTING-1

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES (8hrs)

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries)

Unit 2: PROFIT PRIOR TO INCORPORATION (12hrs)

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL (8hrs)

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, and Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems

Unit 4: VALUATION OF SHARES (8hrs)

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems

Unit 5: COMPANY FINAL ACCOUNTS (20hrs)

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per revised schedule)

SKILL DEVELOPMENT

1. Collect and fill the share application form of a limited Company.
2. Collect Prospectus of a company and identify its salient features.
3. Collect annual report of a Company and List out its assets and Liabilities.
4. Collection of latest final accounts of a company and find out the intrinsic value of shares
5. Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

2.4 QUANTITATIVE ANALYSIS-2

OBJECTIVE

The objective is to provide basic knowledge of statistics and their application to business situations.

Unit 1: INTRODUCTION TO STATISTICS (8hrs)

Meaning and Definition – Functions – Scope – Limitations, Collection of data - census and sample techniques, Classification of data, preparation of frequency distribution and tabulation of data

Unit 2: MEASURES OF CENTRAL TENDENCY (12hrs)

Meaning and Definition Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (excluding missing frequency problems), Graphical representation of median and mode – Ogive– curve, histogram, smoothed frequency curve and frequency polygon.

Unit 3: MEASURES OF DISPERSION AND SKEWNESS (12hrs)

Meaning & Definition -Range, Quartile Deviation, Mean Deviation Standard Deviation and Coefficient of Variation, Skewness: Meaning, uses, and problems on Karl Pearson's Co-efficient of skewness

UNIT 4: CORRELATION AND REGRESSION ANALYSIS (10hrs)

Meaning Importance, merits, demerits and analysis - Problems

Unit 5: INDEX NUMBERS (14hrs)

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (including TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

1. Draw a blank table showing different attributes
2. Collect marks scored 50 students in a examinations and prepare a frequency distributions table
3. Collect data relating to prices of shares of two companies for ten days and ascertain which companies shares prices is more stable
4. Collect the run scored by the two batsmen in ten one day international cricket matches, find who is better run getter and who more consistence.
5. Collect age statistics of 10 newly married couples and compute correlation coefficient
6. Collect age statistics of 10 newly married couples and compute regression equations; estimate the age of bride when age of bridegroom is given.
7. Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate Cost of Living Index.

BOOKS FOR REFERENCE

1. Anand Sharma : Statistics For Management, HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. D.P Apte ; Statistical Tools for Managers.
2. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
3. S.C Gupta: Business Statistics, HPH
4. N.V.R Naidu : Operation Research I.K. International Publishers
5. Ellahance : Statistical Methods, Kitab Mehel.
6. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
7. Veerachamy: Operation Research I.K. International Publishers
8. S. Jayashankar: Quantitative Techniques for Management.
9. Chikoddi & Satya Prasad : Quantitative Analysis for Business Decision, HPH
10. Dr. Alice Mani: Quantitative Analysis for Business Decisions - I, SBH.

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

(10hrs)

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

(10hrs)

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special relationships.

Unit 3: BANKING OPERATIONS

(18hrs)

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for value – Holder in Due Course - Statutory Protection to Collecting Banker Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques. Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

(12hrs)

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

(6hrs)

New technology in Banking – E-services – Debit and Credit cards, Internet Banking, Digital Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT, SWIFT.

SKILL DEVELOPMENT:

1. Collect and fill account opening form of SB A/c or Current A/c
2. Collect and fill pay in slip of SB A/c or Current A/c.
3. Draw specimen of Demand Draft.
4. Draw different types of endorsement of cheques.
5. Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
6. List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P Srivastava ; Banking Theory & Practice, Anmol Publications
4. M. Prakash, Bhargavi VR: Banking law & Operation, Vision Book House.
5. Tannan M.L: Banking Law and Practice in India, Indian Law House
6. Sheldon H.P: Practice and Law of Banking.
7. K. Venkataramana, Banking Operations, SHBP.
8. Kothari N. M: Law and Practice of Banking.
9. Neelam C Gulati: Principles of Banking Management.
10. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
11. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
12. S. Vipradas & j. K Syan: Bank Lending
13. Gajendra & Poddar : Law and Practice of Banking
14. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 COST ACCOUNTING-1

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING (10hrs)

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL (14hrs)

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL (10hrs)

Meaning – Types: Direct Labor, Indirect Labor - Timekeeping – Time booking – Idle Time – Overtime – Labor Turn Over. Methods of Labor Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL (14hrs)

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS (8hrs)

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

1. Identification of elements of cost in services sector by visiting any service sector
2. Cost estimation for the making of a proposed product
3. Draft the specimen of any two documents used in material account.
4. Collection and Classification of overheads in an organization on the basis of functions
5. Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting, HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting, HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

2.7 MARKET BEHAVIOR AND COST ANALYSIS

OBJECTIVE

To make the students familiar with concepts of market, market behavior and cost concepts for business analysis

Unit 1: FIRMS AND DECISIONS (6hrs)

Firm: Meaning and Goals, Profit versus Value (wealth) maximization dynamics. Decision making, decisions under market uncertainties, Tactical versus Strategic Decisions and Game Theory

Unit 2: MARKET FORCE (10hrs)

Demand: Meaning, Law of Demand, Nature of Elasticity of Demand, Determinants of Elasticity of Demand, Cost of Advertisement and Derived Demand Relations, Measurement of Price Elasticity under Total Outlay Method. Demand Forecasting- Meaning and Methods (problems on trend projection by least square method). Supply: Law of supply, Determinants of Supply.

Unit 3: COST AND PROFIT PLANNING (14hrs)

Cost: Meaning of short run and long run costs, fixed and variable costs, explicit and implicit costs, opportunity cost and incremental cost (concepts only). Total cost, average cost and Marginal Cost behavior in short run and long run (including problems on Marginal Cost Statement, CVP Analysis: BEP, BE Chart and calculation of margin of safety, P.V. ratio: profit planning on alternative cost and sales values).

Unit 4: PRICING PRACTICES AND STRATEGIES (16hrs)

Determinants of pricing policy, pricing methods: Marginal Cost Pricing, Target Rate Pricing, Product Line Pricing, administered pricing, competitive bidding, dual pricing, transfer pricing. Price discrimination: requirements, types and dumping strategies. Pricing over product life cycle: skimmed pricing, penetration pricing, product –line pricing and price leadership. Linear programming: problems on profit maximization and cost minimization in graphic method with two variables only.

Unit 5: COST OF CAPITAL AND CAPITAL BUDGETING (10hrs)

Meaning and forms of Capital, Specific Cost of Capital on debt, preference shares and equity shares and weighted average cost of capital (concepts only). Capital budgeting: Meaning and Significance, Present Value of Money and Its Calculation, Methods of Investment Appraisal (simple problems on PB period and NPV methods only).

SKILL DEVELOPMENT

1. Select and discuss the case studies that will have impact on business decision making in each chapter
2. A survey report on the demand forecasting for a product
3. Student to choose a product and apply price elasticity in real situation
4. Present a diagram showing business cycles

BOOKS FOR REFERENCE

1. P.L Mehta; Managerial Economics, Sultan Chand & Sons, New Delhi.12
2. R.L Varshney and K.L Maheshewari; Managerial Economics, Sultan Chand & Sons, New Delhi.
3. Karma Pal : Managerial Economics, Excel Books.
4. H.L Ahuja; Business Economics, S. Chand & Company Ltd., New Delhi

Semester III

3.1 CORPORATE ACCOUNTING-2

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: MERGERS AND ACQUISITION OF COMPANIES (16hrs)

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (IAS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet (Vertical Format)

Unit 2: INTERNAL RECONSTRUCTION (8hrs)

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems

Unit 3: LIQUIDATION OF COMPANIES (10hrs)

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account

Unit 4: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (14hrs)

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Accounting for Intangible Assets

Unit 5: INDIAN ACCOUNTING STANDARDS (8hrs)

Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards, International accounting standards: Meaning- need for International accounting standards International accounting standards Board (IASB) - process of setting International accounting standards- a brief theoretical study of International accounting standards. (Theory only)

SKILL DEVELOPMENT

1. Calculation of Purchase consideration with imaginary figures
2. List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies
3. List out legal provisions in respect of internal reconstruction.
4. Narrate the steps for preparation of consolidated balance sheet.
5. Calculate minority interest and goodwill with imaginary figures.
6. List out preferential creditors as per company's Act

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy, Sultan Chand

3.2 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT (10hrs)

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY (12hrs)

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION (12hrs)

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems

Unit 4: INVESTMENT & DIVIDEND DECISION (16hrs)

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT (6hrs)

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

1. Draw the organization chart of Finance Function of a company
2. Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
3. Capital structure analysis of companies in different industries
4. Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
5. G. Sudarshan Reddy, Financial Management, HPH
6. Roy – Financial Management, HPH
7. Khan and Jain, Financial Management, TMH
8. S. Bhat- Financial Management.
9. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
10. I M Pandey, Financial Management. Vikas Publication.
11. Prasanna Chandra, Financial Management, TMH
12. P.K Simha – Financial Management.
13. M. Gangadhar Rao & Others , Financial management
14. Dr. Alice Mani: Financial Management, SBH.

3.3 BUSINESS DATA ANALYTICS

OBJECTIVE

To make understand the uses of business data and also to give practical exposure on various software's in business to manage data.

Unit 1: INTRODUCTION TO MS EXCEL AND UNDERSTANDING BASIC WORKING WITH IT (12 hrs)

Introduction to MS Excel: MS Excel Options, Ribbon, Sheets and Difference between Excel 2007, 2010, Saving Excel File as PDF, CSV and Older versions Using Excel Shortcuts with Full List of Shortcuts Copy, Cut, Paste, Hide, Unhide, and Link the Data in Rows, Columns and Sheet Using Paste Special Options. Formatting Cells, Rows, Columns and Sheets protecting & non protecting Cells, Rows, Columns and Sheets with or without Password Page Layout and inter Properties, Inserting Pictures and other objects in Worksheets.

Unit 2: WORKING WITH FORMULAE/FUNCTIONS (18 hrs)

Lookup and Reference Functions: VLOOKUP, HLOOKUP, INDEX, ADDRESS, MATCH, OFFSET, TRANSPOSE etc

Logical Function: IF / ELSE, AND, OR, NOT, TRUE, NESTED IF/ELSE etc

Database Functions: DGET, DMAX, DMIN, DPRODUCT, DSTDEV, DSTDEVP, DSUM, DVAR, DVARP etc

Date and Time Functions: DATE, DATEVALUE, DAY, DAY360, SECOND, MINUTES, HOURS, NOW, TODAY, MONTH, YEAR, YEARFRAC, TIME, WEEKDAY, WORKDAY etc

Information Functions: CELL, ERROR.TYPE, INFO, ISBLANK, ISERR, ISERROR, ISEVEN, ISLOGICAL, ISNA, ISNONTEXT, ISNUMBER, ISREF, ISTEXT, TYPE etc.

Math and Trigonometry Functions: RAND, ROUND, CEILING, FLOOR, INT, LCM, MOD, EVEN, SUMIF, SUMIFS etc

Statistical Functions: AVEDEV, AVERAGE, AVERAGEA, AVERAGEIF, COUNT, COUNTA, COUNTBLANK, COUNTIF, FORECAST, MAX, MAXA, MIN, MINA, STDEVA etc

Text Functions: LEFT, RIGHT, TEXT, TRIM, MID, LOWER, UPPER, PROPER, REPLACE, REPT, FIND, SEARCH, SUBSTITUTE, TRIM, TRUNC, CONVERT, CONCATENATE, DOLLAR etc

Unit 3: CONDITIONAL FORMATTING (6 hrs)

Using Conditional Formatting, Using Conditional Formatting with Multiple Cell Rules, Using Color Scales and Icon Sets in Conditional Formatting, Creating New Rules and Managing, Existing Rules.

Unit 4: DATA SORTING AND FILTERING (8hrs)

Sorting Data AZ and ZA, Using Filters to Sort Data, Advance Filtering Options, Pivot Tables, Creating Pivot Tables, Using Pivot Table Options, Changing and Updating Data Range, Formatting Pivot Table and Making Dynamic Pivot Tables.

Unit 5: PIVOT CHARTS**(6 hrs)**

Creating Pivot Charts, Types of Pivot Charts and their usage, Formatting Pivot Charts and, Making Dynamic Pivot Charts

Unit 6: VBA MACRO**(6hrs)**

Introduction to VBA Macro, Recording Macro & Understanding Code Behind, Editing, Writing, VBA Code and Saving as Macro or Add-In, Adding Add-Ins-in Excel

SKILL DEVELOPMENT

1. Mention the key skills required for Data Analyst
2. Mention the various steps to be taken in an analytics project
3. List out some common problems faced by data analyst

BOOKS FOR REFERENCE

1. Marketing Analytics: Data-Driven Techniques with Microsoft Excel, Paperback –2014, by Wayne L. Winston (Author)
2. Excel 2010 Power Programming with VBA Paperback , 2010 by John Walkenbach (Author)
3. Excel VBA Programming for Dummies Paperback , 2010 by John Walkenbach (Author)

3.4 FINANCIAL REPORTING

OBJECTIVE

The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit 1: ACCOUNTING STANDARDS (8hrs)

Accounting Standards and Guidance Notes on various accounting aspects issued by the ICAI and their applications. Introduction of Indian Accounting Standards (IAS); Comparative study of ASs vis-a-vis IASs; Carve outs/ins in IASs vis-à-vis International Financial Reporting Standards (IFRSs)

Unit 2: CONSOLIDATED FINANCIAL STATEMENTS (16hrs)

Consolidated Financial Statements of Group Companies Concept of a Group, purposes of consolidated financial statements, minority interest, Goodwill, Consolidation procedures – Minority interests, Goodwill, Treatment of pre- acquisition and post acquisition profit, Consolidation with two or more subsidiaries, consolidation with foreign subsidiaries, consolidated profit and loss account, balance sheet and cash flow statement, Treatment of investment in associates in consolidated financial statements, Treatment of investments in joint ventures in consolidated financial statements

Unit 3: ACCOUNTING AND REPORTING OF FINANCIAL INSTRUMENTS (8hrs)

Meaning, recognition, de-recognition and offset, compound financial instruments, measurement of financial instruments, Hedge accounting disclosures

Unit 4: SHARE BASED PAYMENTS (8hrs)

Share based payments - Meaning, Equity settled transactions, Transaction with employees and non- employees Determination of fair value of equity instruments vesting conditions 3 Modification, cancellation and settlement Disclosures

Unit 5: FINANCIAL REPORTING (16hrs)

Corporate Financial Reporting - Issues and problems with special reference to published financial statements.

Financial Reporting by Mutual funds, Non-banking finance companies, Merchant bankers, Stock and commodity market intermediaries,

Developments in Financial Reporting (a) Value Added Statement (b) Economic Value Added, Market Value Added, Shareholders' Value Added (c) Human Resource Reporting

SKILL DEVELOPMENT

1. Conversion of final accounts to IFRS
2. Analysis of published financial statements for at-least 2 types of stakeholders
3. Preparation of Consolidated Financial Statement of any two existing companies.

JOURNALS FOR REFERENCE

1. Journal of management accounting
2. Journal of accounting & finance
3. Chartered Secretary
4. Chartered Accountant
5. Chartered Analyst

3.5 HUMAN RESOURCE MANAGEMENT

OBJECTIVE

The objective is to familiarize the students with concepts and principles of Human Resource Management.

Unit 1: HUMAN RESOURCE MANAGEMENT (10hrs)

Introduction – Meaning of HRM – Objectives of HRM – Importance of HRM – Functions and Process of HRM – HR Manager - Duties and Responsibilities – Recent trends in HRM.

Unit 2: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION (14hrs)

Meaning – Importance of Human Resource Planning – Benefits of Human Resource Planning, Recruitment – Meaning – Methods of Recruitment, Selection – Meaning – Steps in Selection Process – Problems Involved in Placement.

Unit 3: INDUCTION AND TRAINING (8hrs)

Meaning, objective and purpose of Induction: Training- Need for training, benefits of training, identification of training needs and methods of training.

Unit 4: PERFORMANCE APPRAISAL AND COMPENSATION (10hrs)

Introduction – Meaning and Definition – Objectives – Methods of Performance Appraisal – Uses and Limitations of Performance Appraisal. Compensation – Meaning of Compensation – Objectives of Compensation

Unit 5: PROMOTION AND TRANSFERS (6hrs)

Meaning and Definition of Promotion - Purpose of promotion, basis of promotion, meaning of transfer, reasons for transfer, types of transfer, right sizing of work force, need for right sizing.

Unit 6: HUMAN RESOURCE DEVELOPMENT (8hrs)

Meaning of HRD, Role of training in HRD, Knowledge Management, Knowledge Resources, Impact of Globalization on Human Resource Management, Problems in relation to Transnational and Multinationals

SKILL DEVELOPMENT

1. Prepare a Chart showing the functions of HRM and a brief explanation on the need for each function.
2. Prepare an advertisement for recruitment / selection of candidates for any organization of your choice.
3. Give observation report of industrial safety practices followed by any organization of your choice
4. Develop a format for performance appraisal of an employee.
5. Choose any MNC and present your observations on training program.

BOOKS FOR REFERENCE:

1. Aswathappa, Human Resource Management, Tat McGraw Hill.
2. Madhurimalall, Human Resource Management, HPH.
3. Reddy & Appanniah, Human Resource Management. HPH.
4. C.B.Mamoria, Personnel management, HPH.
6. Edwin Flippo, Personnel management, McGraw Hill.
7. SubbaRao, Personnel and Human Resources management, HPH.
8. S.Sadri & Others: Geometry of HR, HPH.
9. Rajkumar : Human Resource Management I.K. Intl
10. Michael Porter, HRM and human Relations, Juta & Co.Ltd.
11. Biswanath Ghosh, Human Resource Development and Management.
12. Rekha & Vibha – Human Resource Management, VBH.
13. K. Venkataramana, Human Resource Management, SHBP.
14. Dr. Alice Mani: Human Resource Management, SBH.

3.6 PRODUCTION AND OPERATIONS MANAGEMENT

OBJECTIVE

The objective of the subject is to make the students understand the concepts of production and operations management of an industrial undertaking and the benefits of automation.

Unit 1: INTRODUCTION TO PRODUCTION & OPERATIONS MANAGEMENT

(12hrs)

Introduction - Meaning & Definition – Classification - Objectives and Scope of Production and operation Management -Automation: Introduction – Meaning and Definition – Need – Types - Advantages and Disadvantages.

Unit 2: PLANT LOCATION AND LAYOUT

(8hrs)

Introduction – Meaning & Definition - Factors affecting location, theory and practices, cost factor in location - Plant layout principles -space requirement- Different types of facilities, Organization of physical facilities – building, sanitation, lighting, air conditioning and safety.

Unit 3: MATERIALS MANAGEMENT

(8hrs)

Introduction – Meaning & Definition - Purchasing, Selection of Suppliers, Inventory Management, Material Handling Principles and Practices, Economic Consideration, Criteria for Selection of Materials Handling Equipment, Standardization, Codification, Simplification, Inventory Control, Techniques of

Unit 4: PRODUCTION PLANNING AND QUALITY CONTROL

(16hrs)

Objectives and Concepts, capacity planning, corresponding production planning, controlling, scheduling routing – Quality Control - Statistical Quality Control, Quality Management, Control charts and operating characteristic curves, acceptance sampling procedures, Quality Circle, Meaning of ISO and TQM. Productivity – factors influencing productivity - Concept of Standard Time, Method study, Time and Motion Study, Charts and Diagrams, Work Measurements

Unit 5: MAINTENANCE AND WASTE MANAGEMENT

(12hrs)

Introduction – Meaning – Objectives - Types of maintenance, Break down, spares planning and control, preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern scientific maintenance methods - Waste Management - Scrap and surplus disposal, salvage and recovery.

SKILL DEVELOPMENT

1. Visit any industry and list out the stages of PPC with as many details as possible.
2. List out the Functions of Materials management in an organization
3. Describe the Functions of Quality Circles in an industry
4. Draw a ISO specification chart
5. Visit a company and List out Environmental issues.
6. Visit a company and draw a chart on Plant layout.

BOOKS FOR REFERENCE

1. Ashwathappa. K & Sridhar Bhatt : Production & Operations Management, HPH.
2. Gondhalekar & Salunkhe : Productivity Techniques, HPH.
3. SN Chary, Production & Operations Management, McGraw Hill.
4. U. Kachru, Production & Operations Management, Excel Books.
5. Alan Muhlemann, John Oaclank and Keith Lockyn, Production & Operations Management, PHI.
6. K KAhuja, Production Management, CBS Publishers.
7. S.A. Chunawalla & Patel: Production & Operations Management, HPH.
8. Everett E Adam Jr., and Ronald J Ebert, Production & Operations Management, Sage Publishing
9. Dr. L. N. Agarwal and Dr. K.C. Jain, Production Management
10. Thomas E. Morton, Production Operations Management, South Western College.
11. K. Venkataramana, Production Operations Management, SHBP.

3.7 COST ACCOUNTING-2

OBJECTIVE

Use of costing data for decision making and cost control, emerging modern cost management concepts

Unit 1: JOB AND CONTRACT COSTING (12hrs)

Features, objectives, advantages and disadvantages of job & contract costing, Comparison between job and contract costing – problems

Unit 2: PROCESS COSTING (14hrs)

Features of process costing, application, comparison between job costing and process costing, advantages and disadvantages, process loss – normal loss – abnormal loss, abnormal gain – joint and by-products – problems (excluding inter-process profits and equivalent production)

Unit 3: OPERATING COSTING (12hrs)

Introduction, Meaning, Types & methods, Transport Costing: Meaning, classification of costs, collection of costs, ascertainment of absolute passenger kilometers, ton kilometers – problems.

Unit 4: ACTIVITY BASED COSTING (10hrs)

Meaning, differences between traditional costing methods and activity based costing. Characteristics of ABC, Cost drives & cost pools. Product costing using ABC system: uses – limitations – steps in implementation of ABC – simple problems.

Unit 5: TARGET COSTING (8hrs)

Target Costing: Meaning, nature, methodology, methods of establishment of cost, Just in Time (JIT): features, implementation, and benefits. (Theory only)

SKILL DEVELOPMENT

1. Listing of industries located in your area and methods of costing adopted by them
2. List out materials used in any two organizations.
3. Preparation of Imaginary composite job cost statement
4. Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – Cost Management
11. Charles T Horngren, George Foster, Srikant M. Data – Cost Accounting: A Managerial Emphasis
12. Anthony R. N. – Management Accounting Principles
13. S. Mukherjee & A. P. Roychowdhury – Advanced Cost and Management Accountancy
14. J. Made Gowda- Cost Accounting
15. Rathnam - Cost Accounting

SEMESTER IV

4.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP (10hrs)

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Differences between Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur – Role of Entrepreneur for Economic Development - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Differences between Manager and Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneurs. Entrepreneurship Development- Need – Problems – National and State Level Institutions

Unit 2: SMALL SCALE INDUSTRIES (12hrs)

Small Scale Industries - Tiny Industries - Ancillary Industries - Cottage Industries – Definition – Meaning - Product Range - Capital Investment - Ownership Patterns - Importance and Role played by SSI in the development of the Indian Economy - Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's

Unit 3: STARTING A SMALL INDUSTRY (14hrs)

Concept of Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture – Location, Clearances and Permits required, Formalities, Licensing and Registration Procedures - Assessment of the market for the proposed project - Importance of financial, technical and social feasibility of the project.

Unit 4: PREPARING THE BUSINESS PLAN (BP) (10hrs)

Business Plan, Importance of BP, Preparation of BP, Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

Unit 5: IMPLEMENTATION OF THE PROJECT AND SICKNESS IN SSIs (10hrs)

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non-financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates – Role and Types. Sickness: Meaning and definition of a sick industry - Causes of Industrial Sickness - Preventive and Remedial Measures for Sick Industries

SKILL DEVELOPMENT

1. Preparation of a Project report to start a SSI Unit.
2. Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
3. Format of a business plan.
4. A Report on the survey of SSI units in the region where college is located.
5. Chart showing financial assistance available to SSI along with rates of interest.
6. Chart showing tax concessions to SSI both direct and indirect.
7. Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasant Desai: The Dynamics of Entrepreneurship Development and Management, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Satish Taneja: Entrepreneur Development, HPH.
4. UdaiPareek and T.V. Rao, Developing Entrepreneurship
5. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems, SIET, Hyderabad
6. Srivastava, A Practical Guide to Industrial Entrepreneurs, Sultan Chand.
7. Government of India, Report of the committee on small and medium entrepreneurs, 1975
8. VidyaHattangadi ; Entrepreneurship, HPH.
9. N.V.R. Naidu : Management and Entrepreneurship, I.K. International
10. Bharusali, Entrepreneur Development,
11. K. Venkataramanappa, Entrepreneurial Development, SHB Publications
12. Anil Kumar : Small Business and Entrepreneurship, I.K. International
13. Rekha & Vibha – Entrepreneurial Management, VBH.

4.2 INTERNATIONAL BUSINESS

OBJECTIVE

The objective of this subject is to facilitate the students in understanding International Business in a multi cultural world.

Unit 1: INTRODUCTION TO INTERNATIONAL BUSINESS (10hrs)

Meaning and Definition of International Business – Theories of International Trade – Economic Theories – Forms of International Business - Nature of International Business

Unit 2: MODES OF ENTRY INTO INTERNATIONAL BUSINESS (12hrs)

Mode of Entry – Exporting – Licensing – Franchising – Contract Manufacturing – Turn Key Projects – Foreign Direct Investment – Mergers, Acquisitions and Joint Ventures – Comparison of different modes of Entry.

Unit 3: GLOBALIZATION (16hrs)

Globalization: Meaning - Features – Stages –Production –Investment and Technology, Globalization – Advantages and Disadvantages – Methods and Essential Conditions for Globalization. MNC's and International Business: Definitions – Distinction between Indian Companies – MNC – Global Companies and TNC – Organizational Transformations – Merits and Demerits of MNC's in India

Unit 4: INTERNATIONAL MARKETING INTELLIGENCE (8hrs)

Information required – Source of Information – International Marketing Information System and Marketing Research.

Unit 5: EXIM TRADE (10hrs)

Export Trade, Procedure, Steps & Documentation, Direction of India's Trade – Export Financing – Documents related to Export Trade – Export Marketing – Import Trade, Procedure, Steps, Documentations and Problems - EXIM Policy - Balance of Payment – Disequilibrium and Measures for Rectification - Institutions connected with EXIM Trade.

SKILL DEVELOPMENT

1. List any three MNC's operating in India along with their products or services offered.
2. Prepare a chart showing currencies of different countries
3. Tabulate the foreign exchange rate of at least 2 countries for 1 month
4. Collect and Paste any 2 documents used in Import and Export trade.

BOOKS FOR REFERENCE

1. Dr. Aswathappa International Business, Tata McGraw Hill
2. P. SubbaRao – International Business – HPH
3. Shyam Shukla; International Business, Excel Books
4. Francis Cherunilam; International Business, Prentice Hall of India
5. Mahua Dutta, International Business, I.K. Intl
6. J. Maskeri- International Business
7. Rosy Joshi; International Business, Kalyani Publishers.
8. Venkataramana. K, International Business, SHBP.
9. Subhasre S – International Business, HPH.

4.3 INCOME TAX

OBJECTIVE

The objective of this subject is to expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.

Unit 1: INTRODUCTION TO INCOME TAX (8hrs)

Income Tax: Brief History - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment – Assessment Year – Previous Year – Exceptions to the general rule of Previous Year - Assessee – Person – Income - Casual Income – Gross Total Income – Total Income – Agricultural Income Residential Status: Determination of Residential Status of an individual (simple problems) - Incidence of Tax (Simple Problems on Computation of Gross Total Income). Exempted Incomes: Introduction – Exempted Incomes U/S 10 (Restricted to Individual Assessee) – Only theory

Unit 2: INCOME FROM SALARY (20hrs)

Meaning & Definition – Basis of Charge – Allowances – Fully Taxable Allowances – Partly Taxable Allowances: House Rent Allowance, Entertainment Allowance, Transport Allowance, Children Education & Hostel Allowances - Fully Exempted Allowances – Perquisites – Tax Free Perquisites – Perquisites Taxable in all Cases: Rent free accommodation - Concessional accommodation, Personal obligations of the employee met by the employer – Perquisites Taxable in Specified Cases : Gardener, Sweeper, Gas, Electricity, Water and Motor car facility (when the motor car is owned or hired by the employer) – Provident Funds – Deductions from Salary U/S 16 – Problems on Income from Salary(excluding retirement benefits).

Unit 3: INCOME FROM HOUSE PROPERTY (12hrs)

Basis of Charge – Exempted Incomes from House Property – Annual Value – Determination of Annual Value – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property(Excluding Pre-Construction interest)

Unit 4: PROFITS AND GAINS FROM BUSINESS AND PROFESSION (10hrs)

Meaning and Definition of Business & Profession – Expenses & losses Expressly Allowed – Expenses and losses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on computation of income from Business of Sole Proprietor.

Unit 5: COMPUTATATION OF TOTAL INCOME (6hrs)

Income from Capital Gains (excluding exemptions - Theory only) - Income from Other Sources (Theory only) - Deductions U/S 80 C, D & G. Simple problems on Computation of Total income of an Individual.

SKILL DEVELOPMENT

1. Form No. 49A (PAN) and 49B
2. List of enclosures to be made along with IT returns (with reference to salary & H.P).
3. Preparation of Form 16
4. Computation of Income Tax
5. Table of rates of Tax deducted at source
6. Filing of IT returns of individuals.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax, Kalyani Publisher s
6. 7 Lecturer – Income Tax – VBH
7. Dr. V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publication.

4.4 MARKETING MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the concept of marketing and its applications and the recent trends in Marketing.

Unit 1: INTRODUCTION TO MARKETING (10hrs)

Meaning & Definition – Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing, Recent trends in Marketing - Introduction, E-business – Tele-marketing – M-Business – Green Marketing – Relationship Marketing – Retailing – Concept Marketing and Virtual Marketing (Meaning Only).

Unit 2: MARKETING ENVIRONMENT (MACRO) (10hrs)

Meaning – Demographic – Economic – Natural – Technological - Political – Legal – Socio - Cultural Environment

Unit 3: MARKETING MIX (20hrs)

Meaning – Elements – Product – Product Mix – Product Line – Product Lifecycle – Product Planning – New Product Development – Failure of New Product – Branding – Packing and Packaging, Pricing – Objectives – Factors influencing Pricing Policy and Methods of Pricing. Physical Distribution – Meaning – Factors affecting Channel Selection – Types of Marketing Channels. Promotion – Meaning and Significance of Promotion – Personal Selling & Advertising (Meaning Only)

Unit 4: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR (10hrs)

Meaning & Definition - Bases of Market Segmentation – Requisites of Sound Market Segmentation, Consumer Behavior – Factors influencing Consumer Behavior and Buying Decision Process.

Unit 5: CUSTOMER RELATIONSHIP MANAGEMENT (6hrs)

Meaning and Definition – Role of CRM – Advantages and Disadvantages

SKILL DEVELOPMENT

1. Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
2. Suggest strategies for development of a product
3. Study of Consumer Behavior for a product of your choice
4. Develop an Advertisement copy for a product
5. Prepare a chart for distribution network for different products

BOOKS FOR REFERENCE

1. P N Reddy & Appanniah, Marketing Management, HPH.
2. Kuranakaran, Marketing Management, Himalaya Publishers.
3. Rekha & Vibha, Marketing Management, VBH.
4. Philip Kotler, Marketing Management, Prentice Hall. 34
5. Bose Biplab, Marketing Management, Himalaya Publishers.
6. J.C. Gandhi, Marketing Management, Tata McGraw Hill.
7. Ramesh & Jayanti Prasad: Marketing Management, I.K. International
8. William J. Stanton, Michael J.Etzel, Bruce JWalker, Fundamentals of Marketing, McGraw Hill Education.
9. Sontakki, Marketing Management, Kalyani Publishers.
10. K. Venkataramana, Marketing Management, SHBP.
11. Dr. Alice Mani: Marketing Management, SBH.

4.5 E- BUSINESS

OBJECTIVE

The objective is to expose the students to electronic modes of commercial operations.

Unit 1: HISTORY AND GROWTH OF E-COMMERCE (10hrs)

History and growth of E-Commerce worldwide and in India, Emergence and growth of Internet and WWW, Advantages and disadvantages of E-Commerce, Transition to E-Commerce in India, Opportunities for industries, Challenges for the Indian Corporate.. Internal resisting factors and external driving forces, Information Technology Act 2000 – highlights and concepts of the Act - Business Models for E-Commerce – B2C, B2B, C2C, C2B, Brokerage, Aggregator, Infomediary, Community, Value Chain, Manufacture, Advertising, Subscription and Affiliate Models

Unit 2: INTERNET CLIENT (10hrs)

Internet Client - Server Applications, Telnet, FTP, Chat, ICQ, IRC, Identifying data types with MIME, Network and Internet, Communication, Switching, Transmission, Routers, IP suite, URL's , TCP, Search engines, ISP in India, Policy of Government , Broadband, Hypertext, JavaScript, XML

Unit 3: E- MARKETING (10hrs)

E- Marketing Identifying and achieving marketing goals, e-marketing value chain, maintaining a website, browsing behavior model, online marketing, e-advertising, e-branding. E-CRM solutions, interactive websites, managing customers and lifecycles, data mining and privacy issues, E-Logistics, supply chain management, reducing inventory

Unit 4: E – PAYMENTS (10hrs)

E - payment requirements, digital token based e-payment systems, credit cards and mobile payments, smart card cash payments, properties and uses of e-cash, cheque payments, risks and protection in e-payments, digital signature – usage and legal position, E-banking and Online stock trading

Unit 5: GROWTH AND APPLICATIONS OF MOBILE (8hrs)

Mobile Growth and applications of M , WAP, WDP, SMS, GPRS, Different generations of wireless communication – 1G, 2G, 3G, GSM Vs CDMA, M in India

Unit 6: SECURITY ON THE INTERNET (8hrs)

Security on the internet, site hacking, e-mail security, concept of firewall and its benefits, cyber stalking, risk of privacy, cookies, phishing and threats to children.

SKILL DEVELOPMENT

- Visit Few Business Websites and note down in Practical Record Book

BOOKS FOR REFERENCE

1. Kalakota Ravi and A.B.Whitson : Frontiers of Electronic , Addison Wesley
2. P T Joseph SJ, E- – An Indian Perspective
3. Watson R T : Electronic – the strategic perspective, The Dryden Press
4. CSV Murthy – E-Commerce – Concepts, Models, Strategies
5. Agarwala K.N. and Deeskha Agarwala: Business on the net – Bridge to the online store front, Macmillan, New Delhi.
6. Diwan, Prag and Sunil Sharma, Electronic – A manager guide to E-business,
7. Vanity Boos International, Delhi.
8. Janal D.S : Online Marketing Handbook , Van Nostrand Reinhold Network
9. Koisur David : Understanding Electronic , Microsoft Press, Washington
10. Minoli and Minol, Web technology HandBook, TMH, New Delhi.
11. Murthy CVS, E- – Himalaya Publishing House
12. Cyber Laws : C K Punia - Sumit Enterprises
13. Cyber law: the law of the Internet By Jonathan Rosenoer

4.6 BUSINESS INFORMATION SYSTEMS

OBJECTIVE

To appreciate the role and importance of Information Systems in an Organization and at the various levels of decision making

To understand the elements, functional relationships between the hardware, software and other elements comprising the information system

Unit -1: INTRODUCTION TO INFORMATION SYSTEMS (10hrs)

Introduction to Organization – Decision levels – Managerial roles – Information needs of Management. Information System – Definition – Features – System concepts – Framework for Information Systems- Strategic uses of Management Information Systems – Future of IS in an Organization Business Process Reengineering.

Unit 2: INFORMATION SYSTEM COMPONENTS (14hrs)

Hardware – Input and Output devices – Computer Memory (Primary, Secondary & Cache) – Memory Access Time – File Structures – Network Components. Software – Operating System software – Application software – Groupware – Multiprogramming –Multi tasking. Database – Definition -Data Capture – Data Integrity – Components of Database Management Systems

Unit 3: INTEGRATION OF INFORMATION SYSTEMS (16hrs)

Distributed Processing – Centralized Data Processing – Decentralized Data Processing – Distributed, Databases – Client Server Computing – Internet – Intranet – Electronic Conferencing

Transaction Processing Systems –Office Automation Systems – Knowledge Management Systems –Decision Support Systems (Features, Components & Tools) – Group Decision Support Systems –Expert systems (Components & Advantages) – Case Studies.

Unit 4: APPLICATION OF INFORMATION SYSTEMS IN BUSINESS AREAS (8hrs)

Application of Information Systems at the Operational, Tactical & Strategic Levels in the areas of Accounting & Finance, Marketing, Human Resources and Production

Unit 5: MANAGEMENT OF INFORMATION SYSTEMS (8hrs)

Information Systems Security – Risks – Threats – Protection of Information Systems, Roles & Responsibilities of IS Professionals – Ethical issues

SKILL DEVELOPMENT

1. List and briefly describe the information systems that support knowledge management and the kind of information technology infrastructure it requires.
2. Discuss the various components and framework for understanding MIS.

BOOKS FOR REFERENCE

1. Management Information Systems – The Manager's View, Robert Schulthesis, Mary Summer. TataMc Graw Hill Publications
2. Management Information Systems – Gerald V Post David, L Anderson, Tata McGraw Hill.
3. Management Information Systems – Jaiswal S
4. Management Information Systems – O Brien, Tata Mc Graw Hill.
5. IT The Breaking Wave –Denis P Curtin.
6. MIS, - Managing the digital firm – Landon & Gendom, Pearson Prentice Hall,
7. O Brien, Introduction to IS, TMH.
8. Management Information System – Jaiswal & Mittal , Oxford University Press

4.7 STOCK AND COMMODITY MARKETS

OBJECTIVE

To provide students with a conceptual framework of stock markets and commodity markets, functionalities in these markets and their mode of trading.

Unit 1: AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS (10hrs)

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism, Meaning of commodities and Commodities market, differences between stock market and commodities market

Unit 2: STOCK MARKET (12hrs)

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: meaning, types (in brief).

Unit3: TRADING IN STOCK MARKET (14hrs)

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd. (NSDL), Central Securities Depository Ltd. (CSDL) (in brief)

Unit 4: COMMODITIES MARKET (12hrs)

History, Membership, objectives, functions of commodities exchange, Organization and role of a commodity exchange, Governing Body, Types of Transactions to be dealt in commodity Market –physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit 5: TRADING IN COMMODITY MARKETS (8hrs)

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of Commodity

SKILL DEVELOPMENT

1. Prepare the list of recognized stock exchanges in India
2. Prepare the process chart of online trading of shares and debentures.
3. Prepare the chart showing Governing Body of the Commodities Market.
4. Prepare the list of commodities traded on commodity market.
5. Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. B. Kulkarni – Commodity Markets & Derivatives.
4. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
5. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
6. Srivastava R.M ; Management of Indian Financial Institutions
7. Pallavi Modi : Equity – The Next Investment Destination

Semester V

5.1 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

Unit 1: MANAGEMENT ACCOUNTING AND ANALYSIS OF FINANCIAL STATEMENTS (12hrs)

MANAGEMENT ACCOUNTING: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

ANALYSIS OF FINANCIAL STATEMENTS: Types of Analysis – Methods of Financial Analysis – Comparative Statements – Common Size Statements – Trend Analysis – Problems.

Unit 2: RATIO ANALYSIS (14hrs)

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Problems on Ratio Analysis - Preparation of financial statements with the help of Accounting Ratios.

Unit 3: FUND FLOW ANALYSIS (10hrs)

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Procedure of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operation – Statement of Sources and Application of Funds – Problems.

Unit 4: CASH FLOW ANALYSIS (14hrs)

Meaning and Definition of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS-3 – Procedure of Cash Flow Statement – Concept of Cash and Cash Equivalents - Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to AS-3 (Indirect Method Only).

Unit 5: MANAGEMENT REPORTING (6hrs)

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

1. Collection of financial statements of any one organization for two years and preparing comparative statements
2. Collection of financial statements of any two organization for two years and prepare a common Size Statements
3. Collect statements of an Organization and Calculate Important Accounting Ratio's
4. Draft a report on any crisis in an organization

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy & Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

5.2: LOGISTICS & SUPPLY CHAIN MANAGEMENT

OBJECTIVES

1. To give an insight to the student about the principles and practices in logistics and supply chain
2. To enable them understand the management of the services of an organization

Unit 1: INTRODUCTION (8hrs)

International logistics and Supply Chain Management: meaning and objectives, importance in global economy, Characteristics of global supply chains; Supply Chain relationship to business performance – Key tasks of logistics and supply chain managers, Role of Government in controlling international trade and its impact on Logistics and supply chain. **Supply chain strategy:** Supply Chain as a competitive advantage, Global Supply Chain Strategy; Structuring supply chain capabilities; Business matching supply chain design with business strategy.

Unit 2: TRANSPORTATION (6hrs)

Strategic importance of transport in global logistics, logistical objectives of transport, International Ocean Transportation, International Air Transportation, and International Land Transportation: types, characteristics and salient features, intermodal transportation in international operations, factors influencing mode and carrier selection decision

Unit 3: OUTSOURCING AND LOGISTICS SERVICE PROVIDERS (10hrs)

Intermediaries and Alliances in global logistics; Meaning of 3 PL and 4 PL service providers, role in Global logistics, types of services, considerations for hiring 3 PL and 4 PL service providers. Concept and need of outsourcing, determinants for outsourcing decisions, role of outsourcing in global supply chain management; **Customer service :**The marketing and logistics interface, customer service and customer retention, Service driven logistics systems, customer service priorities and standards, customer service strategy.

Unit 4: PLANNING GLOBAL SUPPLY CHAIN (16hrs)

Planning the global supply chain; Network design for global supply chain management, Risk management in the global context, Measuring logistics cost and performance, Benchmarking the supply chain, Performance measurement and evaluation in global supply chains

Network design : Decisions in Network design-strategic importance; location of plant, warehouse facilities, capacity and number of warehouses; Factors influencing network design decisions; **Inventory flow and modeling :** Approaches to Inventory Management in Global Supply chain Management;; Distribution Resource Planning; Symptoms of poor Inventory Management; Modeling in Supply Chain: Inventory models, safety stock determination for service level; and lead time; forecasting models, routing problem.

Unit 5: COORDINATION IN SUPPLY (16hrs)

Importance of Co-ordination in Supply Chain, Bullwhip effect, effect of lack of Coordination on performance; Obstacles to Coordination, Strategies to achieve coordination, Building strategic Partnership and Trust in Supply chain; **Information technology in supply chain:** Role and Importance of IT in Supply Chain Management, IT Solutions for supply chain management; Supply chain Information Technology in Practice.

Performance measurement and trends: Dimensions of Performance Metrics; Approaches/tools for Performance Measurement, Measuring logistics cost and performance. Benchmarking the supply chain, Performance measurement and evaluation in global supply chains, Impediments to improve performance, Trends in International supply chain management.

SKILL DEVELOPMENT

1. Discuss why high-tech industry has been the leader in adopting supply chain IT systems.
2. Explain the new challenges faced by supply chain managers in the changing business landscape
3. Collect and record how companies are using Internet technology for supply chain management

BOOKS FOR REFERENCE

1. Supply chain management in the retail industry – Michael Hugos and Chris Thomas, Wiley Publishers, 2005.
2. Supply Chain Management “Strategy, Planning and Operations – Sunil Chopra and Peter Meindl, Prentice Hall, 2004.
3. Logistics and Supply Chain Management – Raghuram & Rangaraj, Macmillan India
4. Essentials of Supply Chain Management – Michael Hugos

5.3 AUDITING

OBJECTIVE

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING (12hrs)

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, RECENT TRENDS IN AUDITING: Nature & Significance of Tax Audit – Cost Audit - Management audit.

Unit 2: INTERNAL CONTROL (10hrs)

Internal Control: meaning and objectives. Internal Check: meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING (12hrs)

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES (12hrs)

Meaning and Objectives of verification and valuation – Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS (10hrs)

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor, Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies

SKILL DEVELOPMENT

1. Collect the information about types of audit conducted in any one Organization
2. Visit an audit firm, write about the procedure followed by them in auditing the books of accounts of a firm
3. Draft an investigation report on behalf of a Public Limited Company
4. Record the verification procedure with respect to any one fixed asset
5. Draft an audit program

BOOKS FOR REFERENCE

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

Semester VI

6.1 BUSINESS REGULATIONS

OBJECTIVE

To introduce the students to various topics in law important to business people and to familiarize the students with common problems.

Unit 1: INTRODUCTION TO BUSINESS LAWS (6hrs)

Introduction, nature of law, meaning and definition of business laws, scope and sources of business laws

Unit 2: CONTRACT LAWS (18hrs)

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

Unit 3: INFORMATION TECHNOLOGY ACT (6hrs)

Introduction to Cyber Law in India, salient features of IT Act, 2000, importance of Cyber Law, Digital Signature and cyber crimes.

Unit 4: COMPETITION AND CONSUMER LAWS (14hrs)

The Competition Act, 2002: Objectives of Competition Act, the features of Competition Act, **CAT**, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission

Unit 5: ECONOMIC AND ENVIRONMENTAL LAWS (12hrs)

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent, FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

1. Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance
2. Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
3. Draft an application to the Chief Information Officer of any government office seeking information about government spending.
4. Draft digital signature certificate
5. Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
6. Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
7. Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 QUANTITATIVE TECHNIQUES

OBJECTIVE

To impart knowledge in concepts and tools of OR and to teach students to apply these in managerial decision making.

Unit 1: INTRODUCTION TO OR

(10hrs)

Definitions, Features, Scope and applications of OR. Models of OR Linear programming, Problem Formulation, Graphical Method and Simplex Method of Solution, Product Mix Problems, other Managerial Applications

Unit 2: TRANSPORTATION

(8hrs)

Introduction, Mathematical Formulas, Optimal Solution, North West Corner Rule, Matrix Minima Method, Vogels Approximation method, Test for optimization and transportation by MODI method

Unit 3: NETWORK ANALYSIS

(12hrs)

Network analysis, PERT, CPM- drawing the network activity times, event times, critical path, total and free slack- cost and time trade off and crashing, Inventory models, EOQ model, sensitivity analysis, model with one, price break inventory control systems in practice.

Unit 4: DECISION MAKING UNDER UNCERTAINTY

(10hrs)

Decision making under uncertainty, different decision criteria, decision trees, Simulation, model building, the process, problems with special reference inventory and financial management

Unit 5: GAME THEORY

(16hrs)

Game Theory, Games of pure strategy. Games of mixed strategy, Dominance, Queuing Theory: Elements of a queuing system. Models with Poisson arrival and services rates, single server and infinite and finite population

Sequencing: n-jobs to be processed on two machines in the same order of machines, N-jobs to be processed on m machines in the same order of machines – by converting it into a two – n machine case. Two jobs to be processed on m machines in the different orders of machines, Depreciation model

SKILL DEVELOPMENT

- Describe with an example, how will you compute EOQ with price breaks

BOOKS FOR REFERENCE

1. Srivastava V.K et al – Quantitative techniques for managerial Decision Making, Wiley Eastern Ltd
2. Richard, I. Levin and Charles A.Kirkpatrick – Quantitative Approaches to Management, Mcgraw Hill, Kogakusha Ltd
3. Budnik, Frank S Dennis Mcleaavey, Richard Mojena- Principles of Operation Research- AIT BS New Delhi.
4. Sharma J K – Operation Research- theory and applications McMillan, New Delhi
5. Kalavaathy S. – Operation Research- Vikas Pub Co
6. Gould F J – Introduction to Management Science- Englewood Cliffs N J Prentice Hall.
7. Naray J K , Operation Research, theory and applications- McMillan, New Delhi.
8. Taha Handy, Operations Research, Prentice Hall of India

6.3 ADVANCED MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this paper is to familiarize the student with the Tools and skills of decision making in management accounting.

Unit 1: INTRODUCTION (8hrs)

Introduction: Limitation of Financial Accounting, Employment of Management Accounting, Definition and scope Role of Market Accountant Controller functions Managerial services Management Information System.

Unit 2: BUSINESS BUDGETS (10hrs)

Business Budgets Budgetary Control Capital Budgets: Objectives. Advantages, limitations and essentials of Budgets and Budgetary control Organization of budgetary control Classification of budgets flexible budgets Fundamentals of capital budgeting Preparation of capital budget.

Unit 3: WORKING CAPITAL (10hrs)

Working Capital: Importance of working capital estimation Surplus character of investment Fund flow statement Concept funds Concept of flows Preparation of funds flow statement uses and limitation. Cash flow statement Concept of cash and notional construction of cash flow statement.

Unit 4: MARGINAL COSTING (14hrs)

Marginal Costing and Break Even Analysis: Concept of marginal costing Variable and absorption costing Benefits and limitations of cost, volume and profit analysis, break even point Margin of safely Make or buy decision.

Unit 5: STANDARD COSTING (14hrs)

Standard Costing and Variance Analysis: Standard costing and historical costing Establishment of cost standards Steps involved in standard costing Variance analysis Material variance Material price variance Material usage variance material mix variance Labor variance idle time variance over head variance.

SKILL DEVELOPMENT

1. Preparation of Income Statement using Marginal Costing Technique
2. Illustrate make or buying decisions helps in decision making.
3. Preparation of Sales Budget with Imaginary Figures
4. List any 10 industries where Standard Costing is used

BOOKS FOR REFERENCE

1. Advanced Management Accounting- J Madegowda
2. Introduction to Management Accounting Charles T. Horn Gaxy L. Sundem
3. Tools and Technique Management Account N. Vinayakam
4. Management Accounting S.P. Gupta
5. Management Accounting Manmohan and Goyal
6. Management Accounting V. Krishna Kumar
7. Practical Problem in Management Accounting: Dr. Kulsreshtha and Gupta
8. Advanced Cost and Management Accounting S.P Jain and K.L. Narang

ELECTIVES

ACCOUNTING & TAXATION GROUP

Advanced Accounting
Accounting Standards
Business Taxation
Corporate Tax Planning
Indirect Tax

ADVANCED ACCOUNTING

OBJECTIVES

To acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations

Unit 1: ACCOUNTS OF BANKING COMPANIES (12hrs)

Business of banking companies – some important provisions of banking regulation act of 1949 – minimum capital and reserves – restriction on commission – brokerage – discounts – statutory reserves – cash reserves – books of accounts – special features of bank accounting, final accounts - balance sheet and profit and loss account – interest on doubtful debts – rebate on bill discounted – acceptance – endorsement and other obligations – problems as per new provisions.

Unit 2: ACCOUNTS OF INSURANCE COMPANIES (12hrs)

Meaning of life insurance and general insurance – accounting concepts relating to insurance companies - Preparation of Final accounts of insurance companies – revenue account and balance sheet

Unit 3: INFLATION ACCOUNTING (8hrs)

Need – meaning – definition – importance and need – role – objectives – merits and demerits – problems on current purchasing power method (CPP) and current cost accounting method (CCA).

Unit 4: BRANCH ACCOUNTS (8hrs)

Branch Accounts: Independent Branches- Accounting at Head Office-Accounting at Branch-Some Special Transactions. Foreign Branches- Rules of converting Trial Balance of the foreign Branch in Head Office Currency

Unit 5: INVESTMENT ACCOUNTING (8hrs)

Meaning – nature of investment – investment ledger – different terms used – cum dividend or interest – ex-dividend or interest – brokerage and expenses – problems

Unit 6: LEASE ACCOUNTING (8hrs)

Concept of Leasing: Important Steps in Leasing. Advantages and disadvantages of Leasing, Types of Leasing - Finance Lease - Operating Lease, Accounting treatment of Finance Lease and of Operating Lease, Sale and Leaseback

SKILL DEVELOPMENT

1. Preparation of different schedules with reference to final accounts of Banking Companies
2. Preparation of financial statement of Life Insurance Company
3. Preparation of financial statement of General Insurance Company
4. Collection of transactions relating to any branch and prepare a branch account

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Advanced Accountancy.
2. S. P. Jain and K. L. Narang – Advanced Accountancy
3. R L Gupta, Advanced Accountancy
4. shukla and Grewal, Advanced accountancy
5. B.S.Raman, Advanced Accountancy
6. Jawaharlal, Management Accounting.
7. Sr. K. Paul: Accountancy, Volume-I and II.(New Central Book Agency, Kolkata)
8. R. K. Lele and Jawaharlal: Accounting Theory (Himalaya Publishers)
9. Dr. L. S. Porwal: Accounting Theory (Tata McGraw Hill).
10. Dr.S.N. Maheshwari: Corporate Accounting (Vikas Publishing House Pvt. Ltd.
11. Dr.Ashok Sehgal & Dr.Deepak Sehgal: Advanced Accounting (Taxmann, New Delhi)

ACCOUNTING STANDARDS

OBJECTIVE

1. To expose the students to the theoretical framework of Accounting.
2. To motivate the students for research in accounting area.

Unit 1: ACCOUNTING THEORY (12hrs)

Accounting Theory- Concept of theory and accounting theory; role of accounting theory; classification of accounting theory, Structure, interpretational and decision- usefulness theories; Deductive, inductive, events, value, predictive, behavioral and ethical approaches; methodology in accounting theory and other approaches.

Unit 2: ACCOUNTING CONCEPTS, PRINCIPLES, POLICIES & STANDARDS (10hrs)

Accounting concepts, principles, policies and standards- classifications, GAAPs, concepts- entity, going concern, period, etc, Conventions- materiality; full disclosure, consistency, etc, Accounting principles v/s accounting policies

Unit 3: INDIAN ACCOUNTING STANDARDS (8hrs)

Indian accounting standards: ASB, accounting standards and their implication on presentation of financial statements.

Unit 4: INTERNATIONAL ACCOUNTING STANDARDS (12hrs)

International accounting standards: formulation of accounting standards, Differences between Indian accounting standards and international accounting standards. International accounting standards and their implication on presentation of financial statements, Overview of IFRS (International Finance Reporting System)

Unit 5: MEASUREMENT OF REVENUES AND EXPENSES (6hrs)

Measurement of Revenues and Expenses; Revenues, nature, compositions, measurement, timing of reporting; Expenses- nature, composition, measurement, timing of reporting of expenses.

Unit 6: VALUATION OF ASSETS AND LIABILITIES (8hrs)

Valuation of Assets and Liabilities: Objectives and different classification; measurement of assets, objectives and purposes of measurement; valuation concept- output based valuation, input based valuation; Depreciation Accounting.

SKILL DEVELOPMENT

1. Write an essay on convergence between IFRSs and US GAAP.
2. Collecting and recording any five IFRSs practiced by the Indian companies

BOOKS FOR REFERENCE

1. Robert N. Anthony & James S. Reere: Accounting Principles, AITBS, new Delhi.
2. Elden S. Hendriksen: Accounting Theory, Richard D. Irwin, New York.
3. Needles: Financial Accounting, All India Publishers & Distributors, Chennai.
4. Ahmed Belkaoui; Accounting Theory, Harcourt Brace Boranovich, New York.
5. Vernon Kam : Accounting Theory, John Wiley & Sons, New York
6. Lele & Jawaharlal: Accounting Theory, Himalaya, Bombay.
7. Jain & Narang: Accounting Theory, Kalyani, New Delhi.
8. Staubus C.J: A Theory of Accounting to Investors, Berkeley, University of California Press.
9. L.S.Porwal: Accounting Theory, TMH, New Delhi.
10. 10.Gupta N.D.Accounting Standards,Sultan Chand& sons,New Delhi.

JOURNALS FOR REFERENCE

1. Journal of management accounting.
2. Journal of accounting & finance.
3. Chartered Secretary.
4. Chartered Accountant.

BUSINESS TAXATION

OBJECTIVE

To enable the students to understand assessment of Firms and Companies in regard to income tax and wealth tax

Unit 1: ASSESSMENT OF HINDU UNDIVIDED FAMILY (14hrs)

Hindu coparcenary, schools of Hindu Law, Basic conditions for assessment, basis of Computation, implication of partition of HUF, problems on calculation of taxable income.

Unit 2: ASSESSMENT OF FIRMS (14hrs)

Meaning of Partnership, Firm and Partners – New Scheme of Taxation of Firms – Assessment of Firms (Section 184) – Computation of Firm’s Business Income – Treatment of Interest and Capital, Salary, Commission, Remuneration received by partners and computation of Firms total income.

Unit 3: ASSESSMENT OF COMPANIES (18hrs)

Introduction – Meaning of Company – Types of Companies – Computation of Depreciation – Computation of Taxable Income of Companies – Minimum Alternative Tax (MAT) – Computation of Tax Liability.

Unit 4: ADVANCE PAYMENT OF TAX (10hrs)

Meaning, when person liable to pay Advance Tax, due of Advance Tax, Calculation of Advance Tax, Consequences when advance tax is not paid.

SKILL DEVELOPMENT

1. Collect financial statement of a firm and compute the taxable income
2. Narrate the procedure for calculation of book profits

BOOKS FOR REFERENCE

1. Vinod K Singhania – “Direct Taxes - Law and Practice”, Taxmann Publications
2. Dr. HC Mehrotra and Goyal, “Direct Taxes”, Sahitya Bhavan Publications
3. Gaur and Narang ; Direct Taxes, Kalyani Publishers
4. Rajiva S. Mishra –Direct & Indirect Tax
5. Santhil & Santhil : Business taxation.
- 6 S. Bhat – Taxation Management.

CORPORATE TAX PLANNING

OBJECTIVE

To give an integrated view of direct tax and Company laws to business decisions and to enable the students to independently calculate and analyze tax liabilities

Unit1: OVERVIEW OF COMPANY LAW (8hrs)

Meaning, importance, implications, important amendments being implemented

Unit 2: BASIC FRAMEWORK OF DIRECT TAXATION (12hrs)

Principles of direct taxation appraisal of annual finance act, tax planning and its methods, advance tax rulings. DTC (direct Tax Codes) – overview and implications

Unit 3: SALIENT FEATURES OF COMPANY TAXATION (10hrs)

Salient features of company taxation, scheme of taxing business income of companies, business deductions/ allowances, disallowances and depreciation.

Unit 4: COMPUTATION OF TAXABLE INCOME OF COMPANIES (18hrs)

Computation of taxable income of companies, set off and carry forward of losses, deductions under section 80. Tax planning with respect to amalgamation and demergers, multinational companies double taxation treaties, joint ventures and foreign collaborations, tax consideration in make or buy, own or lease, retain or replace, transfer pricing. International taxation - Overview

Unit -5: PROCEDURE FOR ASSESSMENT (8hrs)

Procedure for assessment, deduction of tax at source, advances payment of tax, refunds, appeals and revisions.

SKILL DEVELOPMENT

1. Tax management is essential for every assessee but tax planning is optional, comment
2. Explain the consequences, where the scientific research assets are sold without having been used for other purposes

BOOKS FOR REFERENCE

1. Dr. Bhagwathi Prasad, Direct taxes law and practices, Wishwa Prakashan, Delhi.
2. Vinod k. Singhania, Direct tax law and practice, taxman.
3. Lal.b.b., Direct taxes, konark publishers, New Delhi.
4. Agarwal PK. Tax Planning for Companies, Hind Law Publishers, New Delhi.
5. Dr. H C Mehrotra & Dr. S P Goyal, Income Tax Law and Practice, Sahitya Bhavan, Agra.
6. Sukumar Bhattacharya, Tax Planning in India.
7. Sharat Bhargav, Direct Taxes, Mashbra Publications, New Delhi.

INDIRECT TAX

OBJECTIVE

The objective is to equip students with the application of principles and provisions of GST laws, and provide an insight into practical aspects and apply the provisions of tax laws to various situations.

Unit 1: BACK GROUND OF GST (10hrs)

What is GST? - Process of introduction of VAT at the Centre and the States – Advantages and Limitations of VAT - Process of preparation for GST – Comprehensive structure of the GST model – Australian Model – Canadian Model – Kelkar-Shah Model – Bagchi-Poddar Model – The Practical Model – FAQs on GST u/s. 4

Unit 2: JUSTIFICATION FOR INTRODUCTION OF GST (8hrs)

Shortcomings at the Central Level - Advantage at the Central Level on introduction of GST - Shortcomings at the State Level - Advantage at the State Level on introduction of GST.

Unit 3: SALIENT FEATURES OF PROPOSED GST MODEL (18hrs)

CONCURRENT DUALGST (i) Dual GST model (ii) Applicability of GST (iii) Apportionment of GST between Central and States (iv) Input tax Credit under GST (v) Cross utilization of ITC between the Central GST and the State GST (vi) Refund and Adjustment of GST (vii) Collection of GST (viii) Administration (ix) Chargeability (x) Compounding Option (xi) Returns under GST (xii) Registration Number (xiii) Audit and Assessment - Other Features of Dual GST Model.

Unit 4: INTER STATE GOODS AND SERVICE TAX (4hrs)

Major advantages of IGST Model - Interstate Goods & Service Tax-illustration

Unit 5: GST RATE STRUCTURE (8hrs)

GST rates in prominent Countries, Zero Rating of Exports, GST on imports, Special Industrial Area Scheme, Transactions within a state under GST & Inter-State Transactions – Under GST

Unit 6: TAXES AND DUTIES SUBSUMED UNDER GST (8hrs)

Taxes & Duties outside the purview of GST – (i) Tax on items containing Alcohol (ii) Tax on Petroleum Products Other Taxes & Duties on special items (i) Tax on Tobacco products (ii) Taxation of Services

SKILL DEVELOPMENT

1. Narrate the procedure for calculation of GST
2. Preparation of challans for payment of tax
3. Preparation of Manufacturers Invoice
4. Preparation of Tax invoice under the GST law

BOOKS FOR REFERENCES

1. L.K. Jain, Central Excise Manual, Contay Publishers P. Ltd.
2. D.N. Khole, B.N.Sharamaetal, Customs Tariff, Census Publishers.
3. Bare Acts of GST.
4. B.K.Ghargava, Indirect Tax Laws, Taxman Allied Services.
5. V.S.Datey, U.K.Bhargava, Indirect Tax Law and Practices.
6. Central Excise Guidelines and Procedures, Nabi Pub. New Delhi.
7. R.K.Jain, Customs Law Manual, ii) Central Excise Manual, iii) Central Excise Law guide, Contex Pub. New Delhi.
8. ArvindDatar, Guide to Central Excise – Law and Practice Vol. I ,Wadhwa and Co. Nagpur.
9. AcharyaShuklendra, Central Excise – Law, Practice and procedure Vol I & II, Modern Law Publisions, Allahabad.
10. S.P. Bhatnagar, Customs Law and Procedure, Contex Pub. New Delhi

FINANCE GROUP

International Finance
Strategic Financial Management
Corporate Financial Policy
Security Analysis & Portfolio Management
Financial Risk Management

INTERNATIONAL FINANCE

OBJECTIVE:

To familiarize the students with International Financial Management issues

Unit 1: INTRODUCTION TO INTERNATIONAL FINANCE (12hrs)

Introduction to International Finance, Methods of Payment, International Monetary system, Issues Involved in International Business and Finance, Recent Developments.

Unit 2: FOREIGN EXCHANGE AND BALANCE OF PAYMENTS (16hrs)

Introduction to Forex, Forex Market & Its Intermediaries, ADR, GDR, Foreign Exchange Rate, Theories of Foreign Exchange Rate Determination, Exchange Rate Forecasting.

Unit 3: INSTRUMENTS IN INTERNATIONAL FINANCIAL MARKETS. (8hrs)

Meaning, definition, international finance markets, Globalization of Capital markets, Innovation in foreign securities and international portfolio management.

Unit 4: FOREIGN EXCHANGE RISK (10hrs)

Meaning, Definition, Participants, Types of Exchange risks, Derivative Instruments used for Hedging: Valuation of Futures, Options and Swaps – Problems, Derivatives from Indian Market Perspective – SWOC Analysis.

Unit 5: INTERNATIONAL FINANCIAL INSTITUTIONS AND LIQUIDITY (14hrs)

Introduction to IMF, International liquidity and SDR's (special drawing rights) – International Bank for Reconstruction and Development (IBRD or World Bank), International Development Association (IDA), Asian Development Bank (ADB), International Finance Corporation (IFC) and Multilateral Investment Guarantee Agency (MIGA)

SKILL DEVELOPMENT

1. Visit any authorized dealers' establishments and understand their activities.
2. Analyze the trend of FDI into India in the last five years.

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Madhu Vij, International Finance.
3. Keith Pibean, International Finance.
4. Avadhani B.K, International Finance Theory and Practice.
5. R.M Srivastava , Multinational Financial Management.
6. P.A. Apte, International Financial Management.

7. Bndar D.C, International Finance.
8. Murthy E.N, International Finance & Risk Management.
9. M.L. Verma, Foreign Trade & Management in India.
10. Rao and Chary, International Finance.
11. Ramachandra & Others ; International Finance

STRATEGIC FINANCIAL MANAGEMENT

OBJECTIVE

- To understand advanced financial management theories and techniques
- To apply theories and techniques for strategic decision making

Unit 1: BUSINESS VALUATION BASICS (20hrs)

Concept of Value; Types of Values; Factors determining Value; Misconceptions about Valuation; Written Valuation Reports, Elements of Business Valuation; Conceptual Overview – Equity and Enterprise Value, Fundamental v/s Relative Valuation, Basis for Valuations; Valuation Approaches – DCF Valuation (Income Approach), Relative Valuation (Market Approach), Contingent Claim Valuation, Asset-based approach, Other Approaches (EVA and Performance-based compensation plans); Choice of Approach; Fair Market Value; Adjustments for valuation purposes.

Related Concepts in Business Valuation – Efficient Market Hypothesis, The impact of changing Capital Structure on the Market Value of the Company, Priorities of different stakeholders in terms of Business Valuation

Illustrations on Valuation – Valuation of a Project, Valuation of an Instrument, Valuation of Equity, Valuation of a Company

Unit 2: MEASURE OF LEVERAGE, EFFECTS OF LEVERAGE (12hrs)

Meaning of Capital Structure, Types, Factors affecting Capital Structure Decisions, Capital Structure Theories, Capital Structure Planning, EBIT-EPS Analysis – Advanced Problems.

Dividend Decisions- relevance and irrelevance theories, types of dividend policies, behavioral models of dividend policy, signaling theory, clientele effects, factors influencing dividend policy, corporate dividend practices in India.

Unit 3: MANAGEMENT OF INTEREST RATE EXPOSURE (12hrs)

Introduction; Nature and Measurement of Interest Rate Exposure; Forward Rate Agreements (FRAs); Interest Rate Options; Interest Rate Caps, Floors and Collars; Valuation of Interest Rate Options; Options on Interest Rate Futures; Interest Rate Swaps

Unit 4: SHORT TERM FINANCIAL MANAGEMENT (16hrs)

Introduction; Short-Term Borrowing and Investment; Where should surplus cash be held?, Importance of Cash budgeting, Investing Surplus Funds, Financing Short-Term Deficits; Centralized versus Decentralized Cash Management, Netting, Exposure Management, Cash Pooling, Disadvantages of Centralized Cash Management; Cash Transmission.

SKILL DEVELOPEMENT

1. List out the companies, which have declared dividends recently along with the rate of dividend
2. List out different modes of dividend policy

BOOKS FOR REFERENCE

1. Business Valuation Management, ICWA Final Study Material, ICWAI
2. Strategic Financial Management, CA Final (New) Course, ICAI
3. International Financial Management, P G Apte, Tata McGraw Hill
4. Mergers, Restructuring and Corporate Control, J Fred Weston & Others, Prentice Hall of India
5. Principles of Corporate Finance (Special Indian Edition), Brealey, Myers, Allen and Mohanty, Tata McGraw Hill
6. Financial Management, M Y Khan & P K Jain, Tata McGraw Hill

CORPORATE FINANCIAL POLICY

OBJECTIVE

To expose the student towards corporate financial policies

Unit 1: FINANCIAL POLICY

(12hrs)

Meaning – Scope - Interface of Corporate Financial Policy and other Managerial Functions – Decision in Corporate Financing Policy – Debt Financing – Internal Financing - Factors to be considered in formulating Financing Policy – Problems on EPS and Point of Indifference.

Unit 2: COST OF CAPITAL

(14hrs)

Meaning and Definition – Significance of Cost of Capital – Types of Capital – Computation of Cost of Capital – Specific Cost – Cost of Debt – Cost of Preference Share Capital – Cost of Equity Share Capital – Weighted Average Cost of Capital – Problems.

Unit 3: CORPORATE FINANCIAL GOALS

(8hrs)

Mission - Vision – Profit Maximization - Wealth Maximization – Economic & Business Environment – Sustained Growth Approach – Fund availability – Maximizing Growth - Growth Potential of a Single Product Company - Growth Potential of Multi Product Company.

Unit 4: MERGERS AND ACQUISITIONS

(16hrs)

Meaning - Reasons – Types of Combinations - Forms of Merger – Motives and Benefits of Merger – Financial Evaluation of a Merger - Merger Negotiations - Meaning and Significance of P/E Ratio. Problems on Exchange Ratio, EPS and Market Price Methods – Valuation M&As

Unit 5: CORPORATE VALUATION

(10hrs)

Meaning of Corporate Valuation – Methods of Corporate Valuation – Reasons for Corporate Valuation – Different approaches for Corporate Valuation - Valuation of Bonds and Intangible Assets – Valuation of Bonds and Shares – Problems

SKILL DEVELOPMENT

1. Formulation of financing policy
2. Case analysis of some live merger reported in business magazines
3. Analyzing business growth of some companies on the basis of reported financial results of some companies.
4. Identify Mission, vision statement of Company.
5. Case study of growth pattern of a single product / multi product.

BOOKS FOR REFERENCE

1. I M Pandey, Financial management.
2. R P Rustagi, Financial management.
3. J C Vanhorne, Financial management.
4. Sudhindra Bhat ; Corporate Finance.
5. S.C. Sharam and Monica : Indian Financial System I.K. Intl
6. Dr. Besent Ray, Corporate management.
7. Weston and Brigham, Essentials of Managerial Finance.
8. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
9. E Gardon & K Natarajan: Financial Markets & Services
10. Nishikanta Jha ; Mergers Acquisitions and Corporate Restructurings

SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

OBJECTIVE

To familiarize the students about investment decisions and portfolio decisions.

Unit 1: INTRODUCTION TO INVESTMENT MANAGEMENT (16hrs)

Meaning of Investment – Selection of Investment – Classification of Securities – Risk and Uncertainty – Types of Risks – Risk and Return Set-off– Measurement of Portfolio Risk – Benefits of Diversification – Investment Strategies – Types of Companies and Stocks – Matrix approach in Investment Decision – Investment Avenues: Traditional and Modern Avenues.

Unit 2: SECURITY ANALYSIS (14hrs)

Introduction – Fundamental Analysis – Economic Analysis – Industry Analysis – Company Analysis, Technical Analysis – Dow Theory – Advanced Declined Theory – Tools for Technical Analysis, Efficient Market Hypothesis (EMH) – Meaning and Types.

Unit 3: MODERN PORTFOLIO THEORY (14hrs)

Introduction – Harry Markowitz Optimum Portfolio Theory – Risk Free Lending and Borrowing – Capital Asset Pricing Model Capital Market Line – Security Market Line – Beta Factor – Alpha and Beta Coefficient – Sharpe Single Index Model, Arbitrage Pricing Model.

Unit 4: PORTFOLIO MANAGEMENT (6hrs)

Portfolio Evaluation Strategies - Sharpe Model – Jensen Model – Treynor Model and MM Model

Unit 5: GLOBAL MARKETS (10hrs)

Global Investment Benefits – Introduction to ADRs, GDRs, IDRs, FCCBs, Foreign Bonds, Global Mutual Funds – Relationship between Trends in Global Markets and the Domestic Markets, International Investing, International Funds Management, Emerging Opportunities.

SKILL DEVELOPMENT

1. Prepare an imaginary investment portfolio for salaried man whose income as 10 lacks per annum and estimate savings is 2 lacks per annum.
2. Make list of thirty companies which gone for an IPO very recently
3. Prepare a statement showing the ups and downs in the BSE index to the last one years

BOOKS FOR REFERENCE

1. Kevin, Investment and Portfolio Management
2. Prasanna Chandra, Investment Analysis and Portfolio Management, Mcgraw-Hill
3. Sudhindra Bhat- Security Analysis and Portfolio Management Fischer and Jordan, Security Analysis and Portfolio Management, Prentice Hall
4. Avadhani, Investment Analysis and Portfolio Management, HPH'
5. A.P. Dash : Security Analysis and Portfolio Management I.K. Intl
6. Rohini Singh - Security Analysis and Portfolio Management
7. Punithvathy Pandian – Security analysis & portfolio Mgt
8. Preeti Singh - Security Analysis and Portfolio Management

FINANCIAL RISK MANAGEMENT

OBJECTIVE

The objective is to expose students to acquire skills in Financial Risk Management.

Unit1: RISK MANAGEMENT (12hrs)

Introduction, Concepts, Objectives, Process, Role of Insurance, Role of Derivative Instruments - Functions of Derivative Market, Financial Engineering. Participants in the Derivatives Market

Unit 2: FORWARDS, FUTURES AND OPTIONS (24hrs)

Futures v/s Forwards, Types of Futures, Cost of Carry Model, Pricing of Forwards and Futures, The Mechanics of Buying and Selling Futures, Types of Orders, Hedging Strategies Using Futures - Types. Futures Market in India – Recent Developments; Index Futures - valuation and hedging using index futures- illustrations, Interest Rate Futures- Hedging and speculation with interest rate futures.

Options Contracts and Trading: Introduction, Parties in Options Trading, Players in Options Market, Types of Options, Mechanics of Options, Trading in Options, Options Pricing, Index Options, Currency Options, Interest Rate Options, Options on Futures, Hedging Strategies: Protective Puts, Protective Calls, Covered Calls, Spreads, Straddle and Strangle. Valuation of Options: Black Scholes Model and Binomial Distribution Model.

Unit 3: FORWARD RATE AGREEMENTS (FRAs) AND SWAPS (8hrs)

Management of Interest Rate Exposure – Nature and Measurement – Forward Rate Agreements (FRAs), SWAPS: Evolution, Types and Illustrations on Valuation of Swaps.

Unit 4: DERIVATIVES AS RISK MANAGEMENT TOOLS AND VAR (16hrs)

Derivatives as Risk Management Tools, Features and Types of Hedging, Classification of Derivatives, Risk Management - Credit Derivatives: Implementation of Value at Risk System (VAR): Overview of VAR methodology, Statistical Concepts, Application of VAR, VAR for FX Position, Hedging and Arbitrage Opportunities.

SKILL DEVELOPMENT

- Understand the elements of financial Risk Management. Adequate exposure to the functioning of financial Risk Management tools.

REFERENCE BOOKS

1. Dun & Bradstreet: *Financial Risk Management*, Tata McGraw-Hill Publication.
2. Kotreshwar, G: *Risk Management- Insurance and Derivatives*, Himalaya Publishing House
3. Trieshmann, Gustavson & Hoyt: *Risk management & Insurance*, Thomson Learning Inc
4. Crouhy M. Dan Galai and Robert P. Mark: *Risk Management*, McGraw-hill Co.

BUSINESS INFORMATION AND TECHNOLOGY GROUP

Accounting Information Systems
Enterprise Resource Planning
Big Data Analytics
Information Technology and Audit
Banking Technology and Management

ACCOUNTING INFORMATION SYSTEMS

OBJECTIVE

Accounting Information Systems is concerned with the way computerized information systems impact how accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.

Unit – 1: THE INFORMATION SYSTEM: AN ACCOUNTANT’S PERSPECTIVE (10hrs)

The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function. Evolution of Information System Models - The Manual Process Model, the Flat-File Model, the Database Model, the REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2: INTRODUCTION TO TRANSACTION PROCESSING (10hrs)

An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle , Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts , Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems , Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3: COMPUTER-BASED ACCOUNTING SYSTEMS (10hrs)

Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues

Unit – 4: FINANCIAL REPORTING AND MANAGEMENT REPORTING SYSTEMS (10hrs)

Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting , Behavioral Considerations.

Unit – 5: COMPUTER CONTROLS AND AUDITING IT CONTROLS (8hrs)

Relationship between IT Controls and Financial Reporting, Audit Implications of Sections IT Governance Controls, Organizational Structure Controls, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure.

Unit – 6: COMPUTER CENTER SECURITY AND CONTROLS (8hrs)

Computer Center Controls Disaster Recovery Planning - Providing Second-Site Backup , Identifying Critical Applications, Performing Backup and Off-Site Storage Procedures, Creating a Disaster Recovery Team, Testing the DRP, Audit Objective: Assessing Disaster Recovery Planning, Audit Procedures for Assessing Disaster Recovery Planning

SKILL DEVELOPMENT

1. Generation of different types of management reports
2. Preparation of dataflow diagrams
3. Preparation of different flowcharts
4. Computerization of transactions and drawing of a Balance Sheet

BOOKS FOR REFERENCE

1. Accounting Information Systems, 11/E Marshall B. Romney, *Brigham Young University*
Paul J. Steinbart, *Arizona State University*, Prentice Hall
2. The Crossroads of Accounting and IT Donna Kay, Ali Ovlia, May 2011, Hardback,
3. Accounting Information Systems International Edition 10th Edition George Bodnar,
William Hopwood Aug 2009

ENTERPRISE RESOURCE PLANNING

OBJECTIVE

This course covers concepts in enterprise resource planning (ERP). The main focus of this course is to show how ERP systems integrate business processes across functional areas and support business management and performance analysis.

Unit 1: INTRODUCTION (10hrs)

Basic ERP Concepts, Enterprise-An overview, Benefits & Risk, Evolution and Structure: Conceptual Model of ERP, The Evolution of ERP, and The Structure of ERP.

Unit 2: ERP MARKET (10hrs)

ERP Market Place and Market Place Dynamics, Market Overview, The Changing ERP Market, SAP AG, Oracle, PeopleSoft, JD Edwards. Future Directives in ERP

Unit 3: ERP & RELATED TECHNOLOGIES (10hrs)

Business Process Reengineering (BPR), Data Warehousing and Data Mining, OLAP, Product Life Cycle Management, Supply Chain management, CRM

Unit 4: ERP FUNCTIONAL MODULE (10hrs)

Introduction, Finance, Human Resource, Production Planning, Material Management, Sales and Distribution, Integration of ERP, SCM & CRM

Unit 5: SAP- PROJECT PLAN AND IMPLEMENTATION (12hrs)

Implementation Challenges, ERP Implementation Strategies, ERP Implementation Life Cycle, Implementation Methodologies, ERP Projects Teams, Vendors and Consultants, Dealing with employee resistance, Training and Education, data migration, Project Management and monitoring, Post Implementation Activities.

Unit 6: MAJOR REPORTING (6hrs)

Functional department's reports and information to stakeholders and legal Compliances

SKILL DEVELOPMENT

Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE

1. Alexis Leon, “ERP Demystified”, TMH.
2. Rahul V. Altekar “ Enterprise wide Resource Planning” , TMH
3. Vinod Kumar Garg and Venkitakrishnan N K, “Enterprise Resource Planning Concepts and Practice”. PHI
4. Joseph A Brady, Ellen F Monk, Bret Wagner, “Concepts in Enterprise Resource Planning”, Thompson Course Technology.
5. S. Sadagopan, “ERP A Managerial Prospects
6. Managing Business Process Flows: Ravi Anupindi, Suni Chopra, Pearson Education.
7. Enterprise Resource Planning: Altekar, PHI.
8. Enterprise Resource Planning : Srivatsava, I.K. International Publishers
9. Enterprise Resource Plannin : P. Diwan
10. Introduction to SAP, an Overview of SD: MM, PP, FI/CO Modules of SAP.
11. Enterprise Resource Planning : Zaveri Jyotindra
12. Enterprise Resource Planning : C.S. V Murthy

BIG DATA TECHNOLOGY

OBJECTIVE

The curriculum will help students get a visceral understanding of the entire data value chain – the flow of information from inception to analysis to insight – that is essential to drawing insights from big data.

Unit 1: INTRODUCTION TO BIG DATA (12hrs)

Introduction – distributed file system – Big Data and its importance, Four Vs, Drivers for Big data, Big data analytics, Big data applications. Algorithms using map reduce, Matrix-Vector Multiplication by Map Reduce.

Unit 2: INTRODUCTION HADOOP (8hrs)

Big Data – Apache Hadoop & Hadoop EcoSystem – Moving Data in and out of Hadoop – Understanding inputs and outputs of Map Reduce - Data Serialization.

Unit 3: HADOOP ARCHITECTURE (14hrs)

Hadoop Architecture, Hadoop Storage: HDFS, Common Hadoop Shell commands , Anatomy of File Write and Read., Name Node, Secondary Name Node, and DataNode, Hadoop MapReduce paradigm, Map and Reduce tasks, Job, Task trackers - Cluster Setup – SSH & Hadoop Configuration – HDFS Administering –Monitoring & Maintenance.

Unit 4: HADOOP ECOSYSTEM AND YARN (8hrs)

Hadoop ecosystem components - Schedulers - Fair and Capacity, Hadoop 2.0 New Features- Name Node High Availability, HDFS Federation, MRv2, YARN, Running MRv1 in YARN.

Unit 5: HIVE AND HIVEQL, HBASE (14hrs)

Hive Architecture and Installation, Comparison with Traditional Database, Hive QL - Querying Data - Sorting And Aggregating, Map Reduce Scripts, Joins & Subqueries, HBase concepts- Advanced Usage, Schema Design, Advance Indexing - PIG, Zookeeper - how it helps in monitoring a cluster, HBase uses Zookeeper and how to Build Applications with Zookeeper

SKILL DEVELOPMENT

1. Collect and arrange the student data file in the following format - Name, age, gender and i) Write a PIG script to Display Names of all female students ii) Write a PIG script to Display age wise count of all male students.
2. Explain in detail how hive is different form PIG

BOOKS FOR REFERENCE

1. Boris lublinsky, Kevin t. Smith, Alexey Yakubovich, “Professional Hadoop Solutions”, Wiley, ISBN: 9788126551071, 2015.
2. Chris Eaton, Dirk deroos et al. , “Understanding Big data ”, McGraw Hill, 2012.
3. Tom White, “HADOOP: The definitive Guide” , O Reilly 2012.
4. VigneshPrajapati, “Big Data Analytics with R and Haoop”, Packet Publishing 2013.
5. Tom Plunkett, Brian Macdonald et al, “Oracle Big Data Handbook”, Oracle Press, 2014.
6. <http://www.bigdatauniversity.com/>
7. JyLiebowitz, “Big Data and Business analytics”,CRC press, 2013.

OBJECTIVE

This subject aims at imparting knowledge about auditing done with the use of information technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE (12hrs)

Introduction – Meaning - Definition — Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS (10hrs)

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS (10hrs)

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods and setting closing stock manually in the balance sheet, Balance sheet of joint stock companies

Unit 4: TAX AUDIT (8hrs)

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT (6hrs)

Creation and maintenance of Audit Program, create the Audit Program as pre audit activity, Supports to prepare and maintain Audit Working Papers, Facility to mark the applicable and compiled Accounting Standards for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE

1. Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.
2. Guide to Tally 9, Law Point,
3. Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5.

BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this course is to acquaint students with the banking technology and their recent developments. Also it will enhance the students with live picture of modern banking concepts and Techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING (12hrs)

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS (12hrs)

Over of delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3: BACK OFFICE OPERATIONS (12hrs)

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4: INTER BANK PAYMENT SYSTEM (10hrs)

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGSS – Negotiated dealing systems and securities settlement systems – Electronic Money – E-cheques.

Unit 5: CONTEMPORARY ISSUES IN BANKING TECHNIQUES (10hrs)

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

SKILL DEVELOPMENT

1. Filling of application for opening a Bank Account
2. Preparations of Bank Reconciliation Statement
3. Identify and compare the banking delivery channels of nationalized banks and private banks
4. List out the boons and the banes of computerization of banks operations
5. Current issues in banking technology to be discussed in class.

BOOKS FOR REFERENCE

1. Kaptan S S & Choubey N S, "E-Indian Banking in Electronic Era", Sarup & Sons, New Delhi 2003.
2. Vasudeva, "E-Banking", Common Wealth Publishers, New Delhi, 2005.
3. Chandramohan : Fundamental of Computer Network I.K. International Publishers
4. Efferim Turban, Rainer R. Kelly, Richard E.Potter, "Information Technology", John Wiley & Sons Inc, 2000.
5. Andrew S. Tanenbaum, "Computer Networks", Tata Mcgraw Hill, 3rd Edition, 2001
6. Padwal & Godse : Transformation of Indian Banks with Information Technology.

BANKING & INSURANCE GROUP

International Banking & Forex Management
Life and General Insurance
Risk Management
Marketing of Insurance Products
Actuarial Science

INTERNATIONAL BANKING & FOREX MANAGEMENT

OBJECTIVE

The objective of this course is to enable the students to understand the various concepts of international banking and foreign exchange rate determination.

Unit1: INTRODUCTION TO INTERNATIONAL BANKING (10hrs)

Introduction – Meaning – Functions – Financing of Exports – Financing of Imports – International Payment Systems.

Unit 2 : INTERNATIONAL CAPITAL MARKETS (10hrs)

Introduction – meaning and Definition – Types – Financial market flow beyond national boundaries – Debt and non – debt flows – Volatile and Stable flows – interest rate differentials - Demand for and supply of funds across borders

Unit 3 : OFFSHORE BANKING CENTRES (10hrs)

Introduction – Meaning – Role in International Financing – Global Balance sheet of bank – Asset and Liability Management of Foreign Banks.

Unit 4: FOREIGN EXCHANGE AND MARKETS (14hrs)

Introduction – Meaning – Elements – Importance – Evolution of Exchange Rate System – International Monetary System – Gold Standard – types of exchange rates – Fluctuations in Foreign Exchange rates – Causes and Effects – Need for Stable foreign exchange Rates – Determination of Exchange rates – Theories of Determination of Foreign Exchange Rates.

Unit 5 : FOREX MARKET IN INDIA (12hrs)

Introduction – Meaning – Types – Operations – Convertibility - Objectives of Foreign Exchange Control – Problems of Foreign Exchange market in India – Mechanism to settle the problems - Role of RBI in settlement of foreign exchange problems in India.

SKILL DEVELOPMENT

1. Chart showing the currencies of Different countries
2. Table showing one month foreign exchange rates of Rupee and US \$
3. Role of RBI in settlement of foreign exchange problems in India
4. Global Balance sheet of a bank
5. Comment on Asset and Liability Management of a Foreign Bank

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Keith Pibean, International Finance.
3. Madhu Vij, International Finance.
4. Timothy Carl Kesta, Case and Problems in International Finance.
5. Avadhani B.K, International Finance Theory and Practice.
6. Somanatha: International Financial Management I.K. International Publishers
7. P.A. Apte, International Financial Management.
8. Levi, International Marketing Management.
9. Chaudhuri & Agarwal Foreign Trade & Foreign Exchange, HPH

LIFE & GENERAL INSURANCE

OBJECTIVE

To enable the students to understand various aspects of Life & General Insurance

Unit 1: INTRODUCTION TO LIFE INSURANCE (12hrs)

Introduction to Life Insurance - Principles of Life Insurance - Life insurance products, pensions and annuities - Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

Unit 2: LEGAL ASPECTS OF LIFE INSURANCE (12hrs)

Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA Act

Unit 3: CLAIM MANAGEMENT & RE-INSURANCE (10hrs)

Claim Management - Claim Settlement - Legal Framework - Third party Administration, Insurance ombudsman - Consumer Protection Act - Re-Insurance in Life Insurance - Retention Limits - Methods of re-insurance.

Unit 4: INTRODUCTION TO GENERAL INSURANCE (12hrs)

Introduction to General Insurance, Principles of General Insurance, Types of General Insurance - Personal general insurance products (fire, personal liability, motors, miscellaneous insurance). Terminology, clauses and covers, Risk assessment, underwriting and ratemaking, Product design, development and evaluation, Loss Provincial control

Unit 5: INSURANCE INDUSTRY (10hrs)

Insurance industry - Brief History - Pre Nationalization and post nationalization - Current scenario.- Re-Insurance - Functions, Methods of re-Insurance.

SKILL DEVELOPMENT

1. Calculation of policy premium with imaginary figures
2. Calculation of fair claims with imaginary figures
3. Preparation of list occupational hazards under life insurance

BOOKS FOR REFERENCE

1. P. Perya Swamy ;Principles and Practice of Life Insurance
2. Raman B, Your Life Insurance Hand Book
3. William C. Arthur, Risk Management and Insurance
4. G. Krishna Swamy: A Text book on Principles and Practices of Life Insurance
5. Gopal Krishnan, Liability Insurance
6. Aramvalarthan : Risk Management I.K. Intl
7. Mishra M.N, Insurance Principles and Practice
8. Bose A.K, Engineering Insurance
9. Fire Insurance Claim – Insurance institute of India
10. P. K Gupta; Insurance & Risk Management

RISK MANAGEMENT

OBJECTIVE

To expose students to acquire skills in Risk Management

Unit 1: INTRODUCTION TO RISK MANAGEMENT (10hrs)

Introduction to risk management- elements of uncertainty peril, Hazards – types risk management process - definition, types and various means of managing risk – limitations of risk management.

Unit 2: SOURCES OF RISK AND EXPOSURE (10hrs)

Sources of risk and exposure, pure risk and speculative risk, acceptable and non- acceptable risks, static and dynamic risk, various elements of cost of risk,

Unit 3: CORPORATE RISK MANAGEMENT (12hrs)

Corporate risk management, riskiness of returns, -approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

MODULE 4: MANAGEMENT OF PURE RISK AND INSURANCE (12hrs)

Objectives of Managing Pure Risk, Methods of Managing Pure Risk, Identification and measurement of Expected Losses, Measurement of Expected Losses. Insurance and Value Maximization, Kinds of Insurance, New dimensions: Reinsurance, Banc assurance, and Alternative Risk Transfer.

MODULE-5 INSURANCE UNDERWRITING-NEED FOR UNDERWRITING (12hrs)

Meaning, Definitions, Importance, Factors to be considered on activity of underwriting, underwriter, IRDA Regulation on underwriting, functions of underwriting, steps involved in the process of Insurance Underwriting

SKILL DEVELOPMENT

- Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools

BOOKS FOR REFERENCE

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance institute of India
6. N. Gulati –Risk Management
7. Aramvalarthan : Risk Management I.K. International Publishers
8. Life Insurance Claims - Insurance institute of India
9. Gupta S.P, Liability and Engineering Insurance
10. Gupta S.P, Marine Insurance Claim
11. G. Kotheshwar Rao – Risk Management

MARKETING OF INSURANCE PRODUCTS

OBJECTIVE

To enable the students to acquire skills in Marketing of Insurance Products

Unit 1: INTRODUCTION TO MARKETING IN THE INSURANCE INDUSTRY (14hrs)

The role of the customer in marketing, The definition of marketing, Marketing and other related business functions within the insurance industry, Creating a marketing strategy for insurance products, Impact of external and internal factors on the marketing strategy, External considerations including: Social – Economic – Competition – Technological – Ecological and Meteorological – Consumer protection, Internal considerations including: Structure - Behavior – Values.

Unit 2: MARKETING THEORY AND CONCEPTS IN THE INSURANCE INDUSTRY (14hrs)

Insurance customers and their buying patterns, Supply and demand in the insurance industry (including insurance cycle), The marketing mix, Segmentation of existing and prospective customers, Competitive positioning, Differentiation of the product, Financial Value Chain analysis, Portfolio management, The life cycle of insurance products, Analyzing existing insurance customers, Core competencies, Internal auditing of marketing practices, SWOT analysis.

Unit 3: DEVELOP A MARKETING STRATEGY FOR INSURANCE PRODUCTS (14hrs)

Identifying segments in insurance customers, Customer's attributes and behaviors, Using data from customer relationship management systems to feed into strategy, Identifying competitors, Competitor's portfolio of offerings and position, Developing a portfolio of opportunities, Scenario testing, Taking a position in the market, Value and supply chain analysis, Pricing, Regulation, Branding insurance products and services, Establishing a brand, The importance of branding, Brand awareness, Brand extension, White labeling.

Unit 4: IMPLEMENT AND DELIVER A MARKETING STRATEGY (14hrs)

Communicating the marketing message for insurance products and services, The marketing communications portfolio, The marketing message, E-marketing, Advertising, Sales and account management, Public relations, Promotion, Sponsorship, Emergency communications plan, Distributing insurance and finance products and services, Different channels for distribution (including Call centers), Distribution options: Financial advisers – Intermediaries / brokers – Direct selling – Financial institutions, including banc assurance – Aggregators – Other organizations distributing insurance, Risk assessment, Service delivery, Customer experience, including claims, Managing the customer relationship.

SKILL DEVELOPMENT

1. Preparation of an advertisement copy to Marketing Insurance Products
2. Conducting a survey to understand policy holders stratification
3. Designing brochure for Marketing Insurance Products

BOOKS FOR REFERENCE

1. Marketing: concepts and strategies. Sally Dibb ... [et al]. 5th European ed. Boston, Massachusetts: Houghton Mifflin, 2005.
2. The marketing casebook. Sally Dibb, Lyndon Simpink. 2nd ed. London: Thomson Learning, 2001.
3. Marketing management. Philip Kotler. 13th ed. London: Pearson Education, 2009.
4. Marketing planning for financial services. Roy Stephenson. Aldershot, Hants: Gower, 2005.
5. A Mishra/A Mishra – Marketing strategy.
6. Marketing strategy: the difference between marketing and markets. Paul Fifield. 3rd ed. London: Butterworth- Heinemann, 2007.
7. Marketing theory: a student text. Michael J Baker. London: Thomson Learning, 2000.
8. Principles of marketing. Philip Kotler, Gary Armstrong. 12th ed. International ed. Upper Saddle River, New Jersey: Pearson Education, 2008
9. Innovative Marketing balancing Commercial goals & Corporate responsibility

ACTUARIAL SCIENCE

OBJECTIVE

To enable students to understand the concept of actuarial sciences and to understand the techniques of mortality analysis

Unit 1: INTRODUCTION (14hrs)

Actuarial principles, Elements of compound Interest and elementary theory of probability, Demography, Principles of ratemaking, Data required for rate making, Insurance models, Application of Models.

Unit 2: PREMIUM AND GENERAL PRINCIPLES (12hrs)

Survival distributions and life tables., Loss and express research, Valuation , Sources of surplus and its distribution, Credibility theory and less distribution, Interests and life contingencies

Unit 3: LOANS & ADVANCES (10hrs)

Loans on Insurance, Types of loans, Redemption of loans, Sinking funds, Interest yield on the funds in the life Office

Unit 4: MORTALITY TABLE (8hrs)

Construction of Mortality table and its Sources

Unit 5: TAX PLANNING (12hrs)

Tax Planning - Personal finance, Taxation, The social security schemes and Group Schemes- Background and history, Group underwriting, Group gratuity, Super Annuation Scheme

SKILL DEVELOPMENT

1. Describe the role an Actuary can play in operating an insurance company
2. Discuss the basic rate-making processes

BOOKS FOR REFERENCE

1. Actuarial Science Introduction- Institute of insurance Bombay.
2. Actuarial product development-Insurance Institute of India.



BANGALORE UNIVERSITY

*B.Com. INSURANCE & ACTUARIAL STUDIES (CBCS) DEGREE
SEMESTER SCHEME SYLLABUS 2017 – 2018*

DEPARTMENT OF COMMERCE

Central College Campus, Bengaluru – 560 001.

REGULATIONS PERTAINING TO B.Com INSURANCE & ACTUARIAL STUDIES (CBCS)
DEGREE SEMESTER SCHEME 2017 - 18

I. OBJECTIVES :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Commerce (Hon.) {B.Com, (Insurance & Actuarial Studies)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII.SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has

submitted the prescribed application for the examination along with the required fees to the university.

- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
B.COM INSURANCE AND ACTUARIAL STUDIES (CBCS) SEMESTER SCHEME 2017 – 18
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	1.1	4	3	20	80	100	2
	Language – II : English	1.2	4	3	20	80	100	2
Part 2 Optional	Financial Accounting	1.3	4	3	30	70	100	2
	Indian Financial System	1.4	4	3	30	70	100	2
	Marketing and Services Management	1.5	4	3	30	70	100	2
	Introduction to Actuarial Science and Management	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	2.1	4	3	20	80	100	2
	Language – II : English	2.2	4	3	20	80	100	2
Part 2 Optional	Advanced Financial Accounting	2.3	4	3	30	70	100	2
	Retail Management	2.4	4	3	30	70	100	2
	Banking Law and Operations	2.5	4	3	30	70	100	2
	Fundamentals of Mathematics and Statistics.	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: I Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3.1	4	3	30	70	100	2
	Language – II:English	3.2	3	3	30	70	100	2
Part 2 Optional	Corporate Accounting	3.3	4	3	30	70	100	2
	Financial Management	3.4	4	3	30	70	100	2
	Business Ethics	3.5	4	3	30	70	100	2
	Finance & Financial Mathematics	3.6	4	3	30	70	100	2
	Public Relations and Corporate Communication	3.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	4.1	4	3	30	70	100	2
	Language – II: English	4.2	3	3	30	70	100	2
Part 2 Optional	Advanced Corporate Accounting	4.3	4	3	30	70	100	2
	Cost Accounting	4.4	4	3	30	70	100	2
	E-Business and Accounting	4.5	4	3	30	70	100	2
	Stock and Commodity Markets	4.6	4	3	30	70	100	2
	Principles of Event Management	4.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurship Development	5.1	4	3	30	70	100	3
	International Financial Reporting Standards	5.2	4	3	30	70	100	3
	Income Tax – I	5.3	4	3	30	70	100	3
	Costing Methods	5.4	4	3	30	70	100	3
	Elective – I	5.5	4	3	30	70	100	3
	Elective – II	5.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Business Regulations	6.1	4	3	30	70	100	3
	Principles and Practice of Auditing	6.2	4	3	30	70	100	3
	Income Tax – II	6.3	4	3	30	70	100	3
	Management Accounting	6.4	4	3	30	70	100	3
	Elective – I	6.5	4	3	30	70	100	3
	Elective – II	6.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

ELECTIVE GROUPS**1. FINANCE & ACTUARIAL STUDIES**

Semester No.	Paper No.	Title of the Paper
V	5.5	Statistics & Models
	5.6	Long Term Actuarial Mathematics
VI	6.5	Short Term A Actuarial Mathematics
	6.6	Models & Audit Trails

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM 12 Hrs

Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hrs

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).

Unit 4: ROYALTY ACCOUNTS

12 Hrs

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY 12 Hrs

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- List out Various Accounting Standards
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interestwith imaginary figures under Hire Purchase System.

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

14 Hrs

Types of Banking and Non-Banking Financial Institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Mutual Funds – features and types.

Unit 3: COMMERCIAL BANKS

10 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

10 Hrs

Reserve Bank of India (RBI) – Organization – Objectives – Role and Functions. The Securities Exchange Board of India (SEBI) – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

10 Hrs

Meaning & Definition – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance - housing & vehicle finance.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Markets.
- Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE:

The objective is to familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services

Unit 1: INTRODUCTION TO MARKETING

10Hrs

Meaning and definition - Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing. Recent Trends in Marketing - e-business – Tele-marketing – M-Business – Green Marketing – Retailing, Relationship Marketing – Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT

12Hrs

Meaning – demographic- economic – natural – technological – political – legal – socio cultural environment. Market Segmentation and Consumer Behaviour - Meaning & Definition - Bases of Market Segmentation – Consumer Behaviour – Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX

16Hrs

Meaning – elements – PRODUCT – product mix, product line – product life cycle – product planning – new product development – branding - packing and packaging. PRICING – factors influencing pricing, methods of pricing (only Meaning), and pricing policy - PHYSICAL DISTRIBUTION, Meaning, factors affecting channels, types of marketing channels, PROMOTION –Meaning and significance of promotion – personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICES MANAGEMENT

10Hrs

Meaning of services – characteristics of services – classification of services – marketing mix in service industry – growth of service sector in India. Service processes – Designing the service process – service blueprint – back office & front office process.

UNIT 5: SERVICE SECTOR MANAGEMENT

08 Hrs

Tourism and Travel Services – concept, nature, significance and marketing. Health Care services – concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a new product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition – Financial Service in India.
2. Philip Kotler - Marketing Management, PHI
3. Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
4. Sunil B. Rao - Marketing & Services Mgt – HPH.
5. Dr. Alice Mani: Marketing & Services Management, SBH.
6. J.C. Gandhi - Marketing Management, TMH
7. Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH

8. Jayachandran ; Marketing Management. Excel Books.
9. K. Venkatramana, Marketing Management, SHBP.
10. P N Reddy & Appanniah, Essentials of Marketing Management, HPH
11. Sontakki, Marketing Management, HPH
12. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
13. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
14. K. Karunakaran; Marketing Management, HPH.
15. Davar: Marketing Management.

1.6 INTRODUCTION TO ACTUARIAL SCIENCE AND MANAGEMENT

Hours: 50

OBJECTIVES:

To understand the basic knowledge about Actuarial Science and Management.

Unit I: CONCEPT OF ACTUARY

10 Hrs

Meaning and Definition of Actuary; Nature and Characteristics of Actuarial Sciences; Scope of Actuary; Actuarial Skill sets; Careers in actuary. Role of Actuary in Business

Unit II: EVOLUTION OF ACTUARIAL SCIENCES

12 Hrs

History, Early Actuaries, Technological advances; Actuarial science related to Modern Financial Economics; Actuaries in criminal justice.

Unit III: RISK AND RISK MANAGEMENT PROCESS

14 Hrs

Meaning and Definition of Risk in Insurance, types of risk. Risk Management Process, Loss minimization techniques; Risk management alternatives, Risk control and Risk Financing; Benefits of risk management.

Unit IV: CONCEPT OF INSURANCE

10 Hrs

History and Development of Insurance (life and non life insurances ;) Concepts of insurance, the business of insurance, Insurance Markets – intermediaries and customers, the need for professionalism in insurance business, continued professional Development, Insurance education and training.

Unit V: THE INSURANCE CONTRACT

10 Hrs

Meaning and definition and essential elements of simple contract, Principles of insurance, Types of insurance, Life and non life insurance products.

SKILL DEVELOPMENT

-

BOOKS FOR REFERENCE

- 1.

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE :

The objective of this subject is to acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.

Unit 1: INSURANCE CLAIMS

12 Hrs

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 2: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction – Meaning – Consignor – Consignee – Goods Invoiced at Cost Price – Goods Invoiced at Selling Price – Normal Loss – Abnormal Loss – Valuation of Stock – Stock Reserve – Journal Entries – Ledger Accounts in the books of Consignor and Consignee.

Unit 3: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction – Meaning – Objectives – Distinction between joint venture and consignment – Distinction between joint venture and partnership – maintenance of accounts in the books of co-venturers – maintaining separate books for joint venture – preparation of memorandum joint venture - problems.

Unit 4: BRANCH ACCOUNTS

10 Hrs

Introduction – Meaning – Objectives – Types of Branches - Dependent Branches – Features – Supply of Goods at Cost Price - Invoice Price – Branch Account in the books of Head Office (Debtors System Only).

Unit 5 : DEPARTMENTAL ACCOUNTS

10 Hrs

Meaning, Objectives, basis of allocation of expenses, Trading and Profit and Loss Account in Columnar form – (Excluding Inter Departmental Transfers at invoice price)

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- List out the basis of Allocation of Departmental Expenses.
- Preparation of Consignment account with imaginary figures
- Preparation of Joint accounts with imaginary figures

BOOKS FOR REFERENCE:

1. Arulanandam & Raman; Advanced Accountancy, HPH
2. Anil Kumar – Advanced Financial Accounting HPH
3. Dr. Alice Mani: Advanced Financial Accounting, SBH.
4. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
5. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
6. Souandrajan & K. Venkataramana, Financial Accounting, SHBP.
7. A Bannerjee; Financial Accounting.
8. Radhaswamy and R.L. Gupta, Advanced Accounting , Sultan Chand
9. M.C. Shukla and Grewel, Advanced Accounting , S Chand

2.4 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAIL BUSINESS **10 Hrs.**

Definition – functions of retailing - types of retailing – forms of retail business ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario. International perspective in retail business.

Unit 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS **12 Hrs.**

Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction. Retail planning process: Factors to consider in preparing a business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS **10 Hrs.**

Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising, Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.

Unit 4: RETAIL MARKETING MIX **16 Hrs.**

Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal Methods.

Unit 5: IMPACT OF INFORMATION TECHNOLOGY IN RETAILING **08 Hrs.**

Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing.

SKILL DEVELOPMENT

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing
- List out the Factors Influencing in the location of a New Retail outlet.

BOOKS FOR REFERENCE

1. Suja Nair; Retail Management, HPH
2. Karthic – Retail Management, HPH
3. S.K. Poddar & others – Retail Management, VBH.
4. R.S Tiwari ; Retail Management, HPH

5. Barry Bermans and Joel Evans: "Retail Management – A Strategic Approach", 8th edition, PHI/02
6. A.J.Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
7. Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
8. K. Venkataramana, Retail Management, SHBP.
9. James R. Ogden & Denise T.: Integrated Retail Management
10. A Sivakumar : Retail Marketing , Excel Books
11. Ogden : Biztantra, 2007
12. Levy & Weitz : Retail Management -TMH 5th Edition 2002
13. Rosemary Varley, Mohammed Rafiq-: Retail Management
14. Chetan Bajaj : Retail Management -Oxford Publication.
15. Uniyal &Sinha : Retail Management - Oxford Publications.
16. Araif Sakh ; Retail Management

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

10 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

10 Hrs

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special Relationships.

Unit 3: BANKING OPERATIONS

18 Hrs

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course - Statutory Protection to Collecting Banker

Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques.

Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

12Hrs

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P. Srivastava ; Banking Theory & Practice, Anmol Publications
3. M. Prakhas, Bhargabhi R: Banking law & Operation, Vision Book House.
4. Tannan M.L: Banking Law and Practice in India, Indian Law House
5. Sheldon H.P: Practice and Law of Banking.
6. K. Venkataramana, Banking Operations, SHBP.
7. Kothari N. M: Law and Practice of Banking.
8. Neelam C Gulati: Principles of Banking Management.
9. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
10. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
11. S. Vipradas & j. K Syan: Bank Lending
12. Gajendra & Poddar : Law and Practice of Banking
13. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 FUNDAMENTALS OF MATHEMATICS AND STATISTICS.

OBJECTIVES:

To ensure students have grounding in the mathematics and basic statistics that underpin actuarial work.

Unit I: NUMERICAL METHODS:

12 Hrs

Absolute and proportionate change calculation; Percentage change in quantity; The absolute, proportionate and percentage error calculation; Comparison of actual with expected values or approximate with accurate values; Linear interpolation to ascertain approximate value; Simple iterative methods to solve non linear equations; Simple calculations of Vectors, use of row/column vectors, and unit vectors, additions and subtraction of vectors, multiplication of a vector by a scalar, Determining the magnitude and direction of a vector, the scalar product of two vectors; Matrices-transposition of a matrix, addition, subtractions, multiplication of a matrix by a scalar multiplication of the approximately sized matrices. Calculating of Determinant of a 2x2 matrix; calculation of inverse when such a matrix is non singular.

Unit II MATHEMATICAL CONSTANTS AND STANDARD FUNCTIONS

8 Hrs

Definition and basic properties of the functions, sketch of graphs of simple functions involving the basic functions, simplification and calculation of expressions involving the functions, Concept of a limit of a function and the 'lim' notation, Concept of bounded function.

Unit III: ALGEBRA

10Hrs

Powers, logs, polynomials and fractions, simple equations, simultaneous equations, Quadratic equation by factorisation, inequalities in simple cases, Concept of a strict or weak inequality, sums over sets and repeated sums, sum of a series involving finite arithmetic or geometric progression or non terminating geometric progressions, Determination of non terminating geometric series converges, simple first or second order difference equations, Binomial expansion of expressions.

Unit IV CALCULUS:

10 Hrs

Determination of a derivative interpretation of a derivative as the gradient of a graph, Differentiate the standard function, Evaluation of derivatives of sums, products, use of product rule, quotient rule, chain rule, Concept of a higher order derivative; differentiation, identification of stationary points, Concept of indefinite integral, partial derivative, Evaluation of partial derivatives in simple cases, Determination of extreme values of functions of two variables Integration of standard function, indefinite and definite integrals by inspection; convergence of definite integral, Application of Taylor and Maclaurin series in simplest form.

Unit V: PROBABILITY AND STATISTICS

16 Hrs

Use of Table, frequency distribution, Graphs – line plot, box plot, bar chart, histogram, stem and leaf plot; Mean Median, Mode, Standard Deviation, range, inter quartile range as appropriate; Meaning of symmetry and skewness,

Concept and definition of probability, meaning of sample space, calculation of probabilities of events in simple situations, Definition and the use of addition rule for the probability, conditional probability, Bayes Theorem to calculate probabilities; Definition of independence;

Application of permutations and combinations to the calculation of probabilities; Meaning of a discrete random variable. Definition of distribution function, and the probability function and its calculations, Meaning of a continuous random variable, Definition of distribution function, and

calculation of probabilities; Definition of expected value of a function of a random variable, the mean, the variance the standard deviation, coefficient , skewness and their calculations.

SKILL DEVELOPMENT

- D

BOOKS FOR REFERENCE

- 1.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES

08 Hrs

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries).

Unit 2: PROFIT PRIOR TO INCORPORATION

12 Hrs

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL

08 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems.

Unit 4: VALUATION OF SHARES

08 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per 2011 revised format)

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect Prospectus of a company and identify its salient features.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the intrinsic value of shares
- Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION

12 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

16 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function of a company.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Capital structure analysis of companies in different industries
- Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
4. G. Sudarshan Reddy, Financial Management, HPH
5. Roy – Financial Management, HPH
6. Khan and Jain, Financial Management, TMH
7. S. Bhat- Financial Management.
8. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
9. I M Pandey, Financial Management. Vikas Publication.
10. Prasanna Chandra, Financial Management, TMH
11. P.K Simha – Financial Management.
12. M. Gangadhar Rao & Others , Financial management
13. Dr. Alice Mani: Financial Management, SBH.

3.5 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS 12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS 12 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT 12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS 12 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE 12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

3.6 FINANCE AND FINANCIAL MATHEMATICS.

OBJECTIVE:

To provide foundation in Finance and Financial Mathematics with simple applications.

Unit I: THE KEY PRINCIPLES OF FINANCE:

08 Hrs

Definitions of principal terms in investment and Asset management; Relationship between finance and real resources; between finance and organisation objectives; between stakeholders; role and effects of the capital markets, Agency Theory, theory of maximisation of shareholders wealth.

Unit II CASH FLOW MODELS:

10 hrs

Uses of a generalised cash flow model to describe finance transactions; inflows and outflows in cash flow process in each future time period; Amount and timing are fixed or uncertain, the operation of a zero coupon bond, fixed interest security, an index linked security, cash and deposit an equity, interest only loan, a property and an annuity certain in the cash flow model.

Unit III TIME VALUE OF MONEY:

12 Hrs

Concepts of simple interest, compound interest, and discounting; Definition of present value of a future payment, effect of compound interest; relationship between the rates of interest and discount; Difference between nominal and effective rates of interest; Meaning of real and money interest rates; Calculation of present value and the accumulated value. Discount and accumulate sum of money; Compound interest functions including annuities certain.

Loan Repayments: Repayment of loan by regular instalments and capital; Flat rates and annual effective rates of interest; Calculation of a schedule of repayment of a loan, Bifurcation interest and capital components.

Unit IV DISCOUNTED CASH FLOW TECHNIQUES:

12 Hrs

Meaning discounted cash flow uses of discounted cash flow techniques in investment project appraisal. Calculations of Net Present Value, Internal Rate Return, Weighted rate of return, Time weighted rate of return and the linked internal rate of return for cash flows of investment project or a fund. **Investment and Risk Characteristics:** Investment and risk characteristics for fixed interest, government borrowings, fixed interest borrowing, shares, derivative

Unit V: COMPOUND INTEREST PROBLEMS

14 Hrs

Elementary compound interest problems assuming tax free investor, calculations of present value of payments from a fixed interest security with constant coupon rate, and security is redeemable in one instalment, calculation of running yield and redemption yield; Present value or Yield calculations from an equity share, and a property with simple assumptions, about the growth of dividends and rents; Index linked bond present value calculation with assumptions about rate of inflation.

Term Structure interest Rates: Factors influencing the Term Structure Interest Rates; Meaning of par yield and yield to maturity; Meaning and calculation of discrete spot and forward rates.

SKILL DEVELOPMENT:

-

BOOKS FOR REFERENCE:

- 1.

3.7 PUBLIC RELATIONS AND CORPORATE COMMUNICATION

OBJECTIVE

To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

10 Hrs

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – Ways to build positive attitude – Effects of negative attitude and measures to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hrs

Meaning of Vision – Doing things for the right purpose – Setting and achieving goals – Importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of Stress Management and Time Management.

Unit 3: CREATIVITY

10 Hrs

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

10 Hrs

Significance – Process of Communication – Forms of Communication - Communication Gap – Listening Skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparation for GD & Interview.

Unit 5: CAREER PLANNING

06Hrs

Career Planning, Awareness of different Careers, Sources of Information, Choosing a Career and Career counseling.

SKILL DEVELOPMENT:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise
- Role play.

BOOKS FOR REFERENCE:

1. C.S. Raydu – Corporate Communication, HPH
2. Rai & Rai Business Communication, HPH
3. S.P. Sharman, Bhavani H. – Corporate Communication, VBH
4. Collins: Public Speaking
5. Mair : Art of Public Speaking
6. K. Venkataramana, Corporate Communication, SHBP.
7. Rajkumar: Basic of Business Communication
8. V.N. Ahuja.: The World's Famous Speeches
9. Daniel Goleman : Emotional Intelligence
10. Jyotsna Codety :Understanding Emotional Intelligence .

11. Dalip Singh :Emotional Intelligence at Work .
12. B. Das / I Satpathy: Business Communication & Personality Development.
13. B.Husluck :Personality Development – Elizabeth.
14. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
15. Allen Bease :Body Language .
16. Tanushree Pooder :Fit and Fine Body and Mind
17. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
18. Partho Pratim Roy :Business Communications – The Basics
19. Sajitha Jayaprakash :Technical Communication

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS (Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour - Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

14 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Identification of elements of cost in services sector by Visiting any service sector.
- Cost estimation for the making of a proposed product.
- Draft the specimen of any two documents used in material account.
- Collection and Classification of overheads in an organization on the basis of functions.
- Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting , HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting , HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

7. P. K Sinha – Accounting & Costing for Managers.
8. M.L. Agarwal: Cost Accounting
9. Dr. Alice Mani: Cost Accounting, SBH.
10. S.P Jain & Narang: Cost Accounting , Kalyani
11. Palaniappan and Hariharan : Cost Accounting I.K. International Publishers
12. S.P. Iyengar: Cost Accounting, Sultan Chand ans Sons
13. S.N. Maheshwari: Cost Accounting, Vikas
14. M. N. Arora: Cost Accounting, HPH
15. Dutta: Cost Accounting
16. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.

4.5 E-BUSINESS AND ACCOUNTING

OBJECTIVE:

The objective of the subject is to familiarize the students with E- Commerce models and Tally

UNIT 1. E-BUSINESS

10 Hrs

Introduction, E-Commerce – Definition, History of E-commerce, Difference between E - Commerce and E - Business. Comparison of traditional commerce and e-commerce Advantages/ Disadvantages of e-commerce,. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. HARDWARE AND SOFTWARE FOR E-BUSINESS

10Hrs

Web server – Internet – World Wide Web - hardware and software for web servers, web hosting choices – shopping cart.

Unit 3: GETTING STARTED WITH TALLY

10Hrs

Meaning of Tally software – Features – Advantages - Required Hardware, Preparation for installation of tally software - installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, Other information, Company features and Inventory features.

Unit 4: CONFIGURING TALLY

16Hrs

General Configuration, Numerical symbols, accts/inv info – master configuration -voucher entry configuration. **Working in Tally:** Groups, Ledgers, writing voucher, different types of voucher, voucher entry Problem on Voucher entry -Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: REPORTS IN TALLY:

10Hrs

Generating Basic Reports in Tally – Financial Statements – Accounting Books and Registers – Inventory Books and Registers – Exception reports – printing reports – Types of Printing Configuration of Options – Printing Format.

SKILL DEVELOPMENT:

- Generating the report of journal
- Generating the report on cash book
- Generating the report on profit and losing account
- Generating the report on balance sheet

BOOKS FOR REFERENCE

1. Raydu – E Commerce, HPH
2. Suman. M – E Commerc & Accounting - HPH
3. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
4. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
5. Amrutha Gowry & Soundrajana, E – Business & Accounting, SHBP.
6. C.S.V Murthy- E Commerce, HPH
7. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
8. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
9. P. Diwan / S. Sharma – E – Commerce
10. Srivatsava: E.R.P, I.K. International Publishers
11. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
12. Tally for Enterprise Solutions

4.6. STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.

Unit: 1 AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of Commodities and Commodities Market, differences between stock market and commodities market.

Unit: 2 STOCK MARKET: 12Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: Meaning, types (in brief).

Unit:3 TRADING IN STOCK MARKET: 14Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL), Central Securities Depository Ltd.(CSDL) (in brief).

Unit: 4 COMMODITIES MARKET: 12Hrs

History, Membership, Objectives, Functions of commodities exchange, Organization and role of commodity exchange, Governing Body, Types of Transactions to be dealt in Commodity Market – physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit: 5 TRADING IN COMMODITY MARKETS: 08Hrs

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of volumes of Commodities

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of shares and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. K. Venkataramana, Stock & Commodity Markets, SHBP.
4. B. Kulkarni – Commodity Markets & Derivatives.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
7. Srivastava R.M ; Management of Indian Financial Institutions
8. Pallavi Modi : Equity – The Next Investment Destination
9. Prisswami – Indian Financial System
10. Ghowria Khatoon – Stock & Commodity Markets, VBH.

4.7 PRINCIPLES OF EVENT MANAGEMENT

OBJECTIVE:

The objective is to provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

Unit: 1- INTRODUCTION TO EVENT MANAGEMENT

12 Hrs

Event- Meaning- Why Event Management- Analysis of Event, Scope of Event, Decision Makers- Event Manager Technical Staff- Establishing of Policies & Procedure- Developing Record Keeping Systems.

Unit: 2-EVENT MANAGEMENT PROCEDURE

12 Hrs

Principles for holding an Event, General Details, Permissions- Policies, Government and Local Authorities, - Phonographic Performance License, Utilities- Fire Bridge Ambulance Catering, Electricity, Water Taxes Applicable.

Unit: 3-CONDUCT OF AN EVENT.

12 Hrs

Preparing a Planning Schedule, Organizing Tables, Assigning Responsibility, Communication and Budget of Event- Checklist, Computer aided Event Management– Roles & Responsibilities of Event Managers for Different Events.

Unit: 4-PUBLIC RELATIONS

10 Hrs

Introductions to Public Relations- Concept- Nature- Importance- Limitations- Media- Types of Media- Media Management, Public Relation Strategy & Planning. Brain Storming Sessions- Writings for Public Relations.

Unit: 5 CORPORATE EVENTS

10 Hrs

Planning of Corporate Event, Job Responsibility of Corporate Events Organizer, Arrangements, Budgeting, Safety of Guests and Participants, Creating Blue Print, Need for Entertainment in Corporate Events And Reporting.

Skill Development

1. Preparation of Event Plan for Wedding, Annual general body Meeting of an MNC.
2. Preparing Budget for conduct of National level intercollegiate sports events.
3. Preparation of Event Plan for College day Celebrations
4. Preparation of Budget for Conducting inter collegiate Commerce Fest.

Book References

1. Event Entertainment and Production – Author: Mark Sonderm CSEP Publisher: Wiley & Sons, Inc.
2. Ghose Basha – Advertising & Media Mgt, VBH.
3. Anne Stephen – Event Management, HPH.
4. K. Venkataramana, Event Management, SHBP.
5. Special Event Production – Doug Matthews – ISBN 978-0-7506-8523-8
6. The Complete Guide to successful Event Planning – Shannon Kilkenny
7. Human Resource Management for Events – Lynn Van der Wagen (Author)
8. Successful Team Management (Paperback) – Nick Hayed (Author)
9. Event Management & Public Relations by Savita Mohan – Enkay Publishing House
10. Event Management & Public Relations By Swarup K. Goyal – Adhyayan Publisher - 2009

5.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE:

To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

12 Hrs

Meaning & Definition – Product Range - Capital Investment - Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

14 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, Technical, Market and Social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI - Non-financial assistance from DIC, SISI, AWAKE, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasanth Desai, Management of Small Scale Industry, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Dr. Venkataramana ; Entrepreneurial Development, SHB Publications

4. Udai Pareek and T.V. Rao, Developing Entrepreneurship
5. Rekha & Vibha – Entrepreneurship Development, VBH
6. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
7. B. Janakiraman , Rizwana M: Entrepreneurship Development, Excel Books
8. Srivastava, A Practical Guide to Industrial Entrepreneurs
9. Anil Kumar: Small Business and Entrepreneurship I.K. International Publishers
10. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
11. Bharusali, Entrepreneur Development
12. Satish Taneja ; Entrepreneur Development
13. Vidya Hattangadi ; Entrepreneurship
14. N.V.R Naidu : Entrepreneurship Development, I.K. International Publishers

5.2 INTERNATIONAL FINANCIAL REPORTING STANDARDS

OBJECTIVE: The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit-I

5Hrs

International Financial Reporting Standards:

Meaning of IFRS - relevance of IFRS to India; merits and limitations of IFRS; process of setting IFRS- Practical challenges in implementing IFRS; a brief theoretical study of International financial reporting standards (IFRS) 1 – 15 - List of International accounting standards issued by IASB.

Unit – II

25Hrs

Accounting for Assets and Liabilities

Recognition criteria's for Investment properties, Government grants, Borrowing costs, Construction contracts, share based payments, Provisions, Contingent liabilities and Contingent assets, Events occurring after the reporting period (**Only Theory**).

Recognition and measurement for property plant and equipment, Intangible assets, Inventories, Leases and Impairment. Accounting for Income tax, Employee benefits. - **Simple problems**

Unit-III

8Hrs

Presentation of Financial Statements:

Outline for the preparation of financial statements - Statement of financial position; Comprehensive income statement; Statement of changes in equity (SOCE), IAS 18 – Revenue.

Elements of financial statements as per IFRS – Non-current assets; current assets; equity; non-current liability; current liability; revenue; cost of sales; distribution costs; administrative expenses; financial costs – profits attributable to owners of controlling interest and non-controlling interest – **Practical problems on each element.**

Unit – IV

12Hrs

Accounts of Groups:

Concept of group – need for consolidated financial statements - Preparation of consolidated financial statements – Procedure for the preparation of consolidated financial position statement – treatment of pre-acquisition profit; goodwill arising on consolidation; on-controlling interests at fair value – **Practical problems.**

Unit – V

6Hrs

Disclosure Standards

Related party disclosure, Earnings per share, Interim financial reporting, Insurance contracts, Operating segments. (**Theory Only**).

SKILL DEVELOPMENT

- 1) Conversion of final accounts to IFRS
- 2) Analysis of published financial statements for at-least 2 types of stakeholders
- 3) Comments for recent developments/exposure draft in IFRS
- 4) Preparation of notes to accounts for non-current assets
- 5) Assignment on social reporting
- 6) Preparation of Consolidated Financial Statement of any two existing companies.
- 7) Disclosure of change in equity in the annual reports of any two select companies.

Books for reference:

1. IFRS – Student Study Guide - ISDC
2. IFRS for India, Dr.A.L.Saini, Snow white publications
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. IFRS explained – a guide to IFRS by BPP learning Media
5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited.
6. IFRS: A quick reference guide by Robert J Kirk, Elsevier Ltd.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provisions of Income Tax Act 1961 relating to computation of Income of individuals.

Unit 1: INTRODUCTION TO INCOME TAX **10 Hrs**

Brief History of Indian Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration – Theory Only) – Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O.

Unit 2: EXEMPTED INCOMES **04 Hrs**

Introduction – Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS **10 Hrs**

Residential Status of an Individual –Determination of Residential Status – Incidence of Tax – Problems.

Unit 4: INCOME FROM SALARY **20 Hrs**

Meaning – Definition - Basis of Charge– Advance Salary – Arrears of Salary – Allowances – Perquisites– Provident Fund - Profits in Lieu of Salary – Gratuity -Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 – Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY **12 Hrs**

Basis of Charge – Deemed Owners – Exempted Incomes from House Property –Composite Rent - Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax.
6. 7 Lectures – Income Tax – I, VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications.

5.4 COSTING METHODS

OBJECTIVE

To familiarize the students on the use of cost accounting system in different nature of businesses.

Unit 1: INTRODUCTION TO COSTING METHODS

04 Hrs

Costing methods – Meaning, Importance and Categories.

Unit 2: JOB AND BATCH COSTING

12 Hrs

Job costing: Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. **Batch costing:** Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.

Unit 3: PROCESS COSTING

14 Hrs

Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification - Joint and by-products costing – problems under reverse cost method.

Unit 4: CONTRACT COSTING

14 Hrs

Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts, Problems.

Unit 5: OPERATING COSTING

12 Hrs

Introduction, Meaning and application of Operating Costing, - Power house costing or boiler house costing, canteen or hotel costing, hospital costing (Theory only) and Transport Costing – Problems on Transport costing.

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Preparation of Imaginary composite job cost statement
- Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – *Cost Management*
11. Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
12. Anthony R. N. – *Management Accounting Principles*
13. S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
14. J. Made Gowda Cost Accounting
15. Rathnam : Cost Accounting

6.1 BUSINESS REGULATIONS

OBJECTIVE:

To introduce the students to various Business Regulations and familiarize them with common issues of relevance.

UNIT 1: INTRODUCTION TO BUSINESS LAWS

06 Hrs

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Laws.

UNIT 2: CONTRACT LAWS

18Hrs

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: COMPETITION AND CONSUMER LAWS:

14 Hrs

The Competition Act, 2002: Objectives of Competition Act, Features of Competition Act, CAT, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission.

UNIT 4: ECONOMIC LAWS

12 Hrs

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

UNIT 5: ENVIRONMENTAL LAW

06 Hrs

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE:

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, Recent Trends in Auditing: Nature & Significance of Tax Audit – Cost Audit - Management Audit.

Unit 2: INTERNAL CONTROL

10 Hrs

Internal Control: Meaning and objectives. Internal Check: Meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation– Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

10 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this subject is to make the students to understand the computation of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS OR PROFESSION **16 Hrs**

Meaning and Definition of Business, Profession – Vocation - Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS **16 Hrs**

Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F– Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES **10 Hrs**

Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME **06 Hrs**

Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 G, 80 GG, 80 GGA, and 80 U. (80 G & 80 GG together should not be given in one problem)

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS **08Hrs**

Meaning –Provision for Set-off & Carry forward of losses (Theory only).

Computation of Total Income and Tax Liability of an Individual Assessee (Problems– in case of income from salary & house property- computed income may be given).

SKILL DEVELOPMENT

- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
4. Gaur & Narang: Income Tax, Kalyani
5. B.B. Lal: Income Tax, Central Sales Tax Law & Practice, Konark Publisher (P) Ltd.
6. Singhania: Income Tax
7. Dr. H.C Mehrothra : Income Tax, Sahitya Bhavan
8. 7 Lecturer Income Tax – VBH

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

12 Hrs

Management Accounting: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.

UNIT2: RATIO ANALYSIS

14 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.

UNIT 3: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

UNIT 4: CASH FLOW ANALYSIS

14 Hrs

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents - Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of Ind AS-7 (old AS 3) – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind AS-7 (old AS 3) (Indirect Method Only).

UNIT 5: MANAGEMENT REPORTING

06 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

ELECTIVE GROUPS

1. FINANCE & ACTUARIAL STUDIES

5.5 STATISTICS & MODELS

OBJECTIVES:

To provide foundation in the aspects of statistics that is of relevance to actuarial work and in stochastic processes and survival models.

Unit I DISCRETE AND CONTINUOUS DISTRIBUTION:

10 Hrs

Definition and application of discrete distributions, geometric, binomial, negative binomial, Poisson and uniform of discrete distribution; Features of principal discrete and continuous distribution; Definition and application of the continuous distribution, normal, log normal, exponential, gamma, chi square, beta and uniform **Moment generating function: (MGF)** Moment generating function, cumulant generating function; simple cases of cumulants, and their uses to evaluate moments; Determination of moment generating function of random variable; Determination of cumulant moment generating function and the cumulants for random variable; Using the above variables, by expansion as a series or by differentiation as appropriate; Uses and application of the above function; Reasons for using the functions;

Unit II: THE CONCEPTS OF INDEPENDENCE, RANDOM VARIABLE AND CONDITIONAL DISTRIBUTIONS:

10 HRS

The use of generating functions to establish the distribution of linear combinations of independent random variables; Ascertain marginal distributions and conditional distributions from jointly distributed random variables; Definition of the probability function/density function of a marginal distribution and of a conditional distribution; Conditions under which random variables are independent; Calculation of the mean and variance of a function of two jointly distributed random variable, and the covariance and correlation coefficient between two variables; Determination of the probability function/density function of a function of independent random variables, using MGFs; Mean and variance of linear function of independent random variables;

Unit III: THE CENTRAL LIMIT THEOREM

12 Hrs

The concepts of random sampling, statistical inference and sampling distribution; the central limit theorem for a sequence of independent, identically distributed random variables; Application of the central limit theorem to establish normal approximations to other distributions, and to calculate probabilities; a continuity correction when using a normal approximation to a discrete distribution; Application of a continuity correction when using a normal approximation to a discrete distribution; Meaning of sample, a population and statistical inference; Definition of random sample from a distribution of a random variable; meaning of a statistic and its sampling distribution; Determination of the mean and variance of a sample mean and the mean of a sample variance in terms of the population mean, variance and sample size; Use of the basic sampling distributions for: - the sample mean where the population variance is know -the sample mean where the population variance is unknown - the sample variance for random samples from a population that follows a normal distribution.

Unit IV: METHODS OF ESTIMATION:**12 Hrs**

The main properties of estimators, and their application, the method of moments for constructing estimators of population parameters; Application of the method of moments for constructing estimators of population parameters; The method of maximum likelihood for constructing estimators of population parameters for exact data samples; Application of the method of maximum likelihood for constructing estimators of population parameters for exact data samples; Definition of the terms: efficiency, bias, consistency and mean squared error; Calculation of the bias and mean square error of an estimator and its use to compare estimators

Unit V: CONFIDENCE INTERVALS FOR UNKNOWN PARAMETERS**12 Hrs**

Definition of a confidence interval for an unknown parameter of a distribution based on a random sample; Calculation of a confidence interval for an unknown parameter using a given sampling distribution for example the mean and variance of a normal distribution; Calculation of confidence intervals for a binomial probability and a Poisson mean, using the normal approximation in both cases; Calculation of confidence intervals for two-sample situations involving either the normal distribution, or the normal approximation to the binomial and Poisson distributions **Testing hypotheses:** Meaning of the terms null and alternative hypotheses, simple and composite hypotheses, critical region, level of significance and probability-value of a test; Application of basic tests for the one-sample and two-sample situations involving the normal, binomial and Poisson distributions; Application of basic test for paired data, Test to test the random sample from a hypothesis including cases where parameters are unknown

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE:

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5.6 LONG-TERM ACTUARIAL MATHEMATICS

OBJECTIVE:

To provide basic knowledge in the mathematical techniques which can be used to model and value cash flows dependent on death, survival, or other uncertain risks arising in pensions and life insurance; (only gross premium and gross premium reserves are covered (net premium reserves are not required)).

Unit I: ACTUARIAL MODELING:

12 Hrs

The principles of Actuarial modelling; Reasons and techniques of using actuarial models; Benefits and limitations of modelling; Difference between a stochastic and deterministic model, Its advantages and disadvantages; Suitability of a model for any particular application; Difference between the short run and long run properties of a model; Analysis of potential output from a model and choice of model; Process of sensitivity testing of assumptions and its importance; Factors in communicating the results of the application of a model; **Stochastic Processes:** Definition of stochastic process and counting process; The general principles of stochastic processes, classification of stochastic processes, Stochastic interest rate models; Stochastic process in continuous or discrete time; continuous or a discrete state space and in mixed type; Application of mixed processes; Meaning of Markov Property in the context of a stochastic process; Concept of stochastic interest rate model and distinction between this and a deterministic model; Algebraically derivation of annual rates of return;

Unit II: MARKOV CHAIN PROCESSES:

14 Hrs

Features of a time homogeneous Markov chain model; Calculation of the stationary distribution for a Markov chain model in simple cases; System of frequency based experience rating in terms of a Markov chain model and simple applications; Use of Markov chains as a tool for modelling; **The Markov Jump Process;** Features of a Markov Jump Process Model, definition of time homogeneous and time inhomogeneous Markov jump process models of transitions between discrete states. Definition of the Poisson process, distribution of the number of events in a given time interval; Definition of the two state survival model, sickness models and examples multiple state models in terms of Markov jump processes. Definition of the jump chain model associated with a Markov jump process model and application of the results; Markov jump processes as a tool for modelling. **The random life time survival model:** Consistency condition between the random variable representing lifetimes from different ages; Definition of the distribution and density functions of the random future lifetime, the survival function, the force of mortality or hazard rate, and their relationships; Definitions of the actuarial symbols and integral formulae; Definition of the curtate future lifetime and the probability function; Definition of the expected value and variance of the complete and curtate future lifetimes and expressions for them. Definition of the symboise and an approximate relation between them; comparison of the random lifetime survival model with the two state Markov jump process survival model

Unit III: SIMPLE ASSURANCE AND ANNUITY CONTRACTS

10 Hrs

Simple assurance and Annuity contracts formulae for the mean and variance of the present value of payments, (assuming deterministic interest), Definition for the following terms: whole life assurance, Term assurance, Pure endowment, Endowment assurance, critical illness assurance, whole life level annuity, temporary level annuity, guaranteed level annuity, premium, Benefit(Including assurance and annuity contracts where the benefits are deferred), Definition of relevant probabilities with their select equivalents,

Determination of expressions in the form of sums for the expected present value of benefit payments under each of the above contracts, assuming that death benefits are payable at the end of the year of death and that annuity are paid annually in advance or in arrears. Simplification of these expressions into a form suitable for evaluation by table look-up or other means, Definition of the relevant symbols and their select and continuous equivalents, Application of the annuity factors for the above symbols to allow for the possibility that payments are more frequent than annual but less frequent than continuous, Different types of mortality table and their use including ways in which future improvements can be allowed for.

Unit IV: PRACTICAL METHODS OF EVALUATING THE EXPECTED VALUES OF SIMPLE ASSURANCE AND ANNUITY CONTRACTS **10 Hrs**

Life table functions and their select equivalents, Definition of life table probabilities, Definition of the expected values, Evaluation of the expected values by table look-up, Determination of the approximations for, and evaluation of the expected values **Gross premiums for Life insurance and annuity contracts:** Types of expenses incurred in writing a life insurance contract, Influence of inflation on the expenses, The premiums and reserves of simple insurance contracts, Calculation by using ultimate or select mortality, the premiums and reserves of simple insurance contracts, Definition of premiums for the insurance contract benefits, Calculation of premiums for the insurance contract benefits using the equivalence principle.

Unit V: GROSS PREMIUM RESERVES **10 Hrs**

The reasons for setting up of reserves, Prospective and retrospective reserves Definition and evaluation of prospective and retrospective reserves Calculation of gross premiums and gross premium reserves for increasing and decreasing benefits and annuities using ultimate or select mortality, Calculation of the expected present value of an annuity, premium, or benefit payable on death, which increases or decreases, Calculation of the expected present value of an annuity, premium or benefit payable on death, which increases or decreases by a constant monetary amount at various times. Calculation of premiums and reserves for contracts with premiums or benefits which increases or decreases by a constant monetary amount at various times, and benefits payable on death, Definition of with profits contract. Different types of bonus payable to with profits contracts. Calculation of premiums and reserves for with profits contracts

SKILL DEVELOPMENT:

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BOOKS FOR REFERENCE:

- 1.

6.5 SHORT TERM ACTUARIAL MATHEMATICS

OBJECTIVE

To provide further knowledge in the mathematical and statistical techniques of particular relevance to non-life insurance.

Unit I: TECHNIQUES OF DISCOUNTING EMERGING COSTS

8 Hrs

Techniques of discounting emerging costs for use in pricing, reserving, and assessing profitability, Features of a unit-linked contract, Evaluation of expected cash flows for whole life, endowment and term assurances, annuities, and unit-linked contracts, Application of a profit test to simple annual premium contracts to determine the profit vector, the net present value, and the profit margin, Method of using the profit test to price a product, and to determine non-unit reserves for unit-linked contracts

Unit II: THE FORMS OF HETEROGENEITY

14 Hrs

The principal forms of heterogeneity within a population and the ways in which selection can occur; the factors that contribute to the variation in mortality and morbidity, (specifically: Occupation, Nutrition, Housing, Climate/ Geography, Education, Genetics;) Definition of the following forms of selection: Temporary initial selection, Class selection, Time selection, Spurious selection, Adverse selection, How selection can be expected to occur amongst individuals taking out each of the main types of life insurance contracts, or amongst members of large pension schemes, How decrements can have a selective effect, The necessity of different mortality tables for different classes of lives, The theoretical basis of the use of risk classification in life insurance, The impact of the availability of genetic information on risk classification in life insurance, The concept of a single figure index and its advantages and disadvantages for summarizing and comparing actual experience, Definition, and illustration for the use of the terms: crude mortality rate, directly standardized and indirectly standardized mortality rate, standardized mortality ratio.

Unit III: PROBABILITIES AND MOMENTS OF LOSS DISTRIBUTION

14 Hrs

Probabilities and Moments of loss distribution both with and without limits and risk-sharing arrangements, The properties of the statistical distributions which are suitable for modelling individual and aggregate losses, Estimation of the parameters of a failure time or loss distribution when the data is complete, or when it is incomplete, using maximum likelihood and the method of moments, Application of the principles of statistical inference to select suitable loss distributions for sets of claims Definition of moments and moment generating functions of loss distributions including the gamma, exponential, Pareto, generalised Pareto, normal, lognormal and Weibull distributions, The concepts of excesses (deductibles), and retention limits, The operation of simple forms of proportional and excess of loss reinsurance, Calculation of the moments of the claim amounts paid by the insurer and the reinsurer in the presence of excesses and reinsurance

Unit IV: RISK MODELS

10 Hrs

Risk models involving frequency and severity distributions, Determination of models appropriate for short term insurance contracts in terms of the numbers of claims and the amounts of individual claims, The major simplifying assumptions underlying the models, Deriving the moment generating function of the sum of N independent random variables; in particular when N has a binomial, Poisson, geometric or negative binomial distribution, Definition of a compound Poisson distribution and apply the fact that the sum of independent random variables each having a compound Poisson distribution also has a compound Poisson distribution, Calculation of the mean and variance for compound binomial, compound Poisson and compound negative binomial random variables and derive the

coefficient of skewness for the compound Poisson case and make a comment on the sign of the skewness in the other case,

Unit V:

10 Hrs

Derive formulae for the moment generating functions and moments of aggregate claims over a given time period for the models in terms of the corresponding functions for the distributions of claim numbers and claim amounts, stating the mathematical assumptions underlying these formulae, Calculation of the mean and variance for compound binomial, compound Poisson and compound negative binomial random variables for both the insurer and the reinsurer after the operation of simple forms of proportional and excess of loss reinsurance and derive the coefficient of skewness for the compound Poisson case and make a comment on the sign of the skewness in the other case.

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.

6.6 MODELS AND AUDIT TRAILS

OBJECTIVE

To ensure that the successful candidate can model data, including

Unit I: RUIN

10 Hrs

Meaning of the aggregate claim process and the surplus process for a risk, Calculation of probabilities of the number of events in a given time Interval and waiting times using the Poisson process and the distribution of inter-event times to probabilities, Calculation by using the Poisson process and distribution of inter-event times, probabilities involving waiting times and the number of events in a given time interval.

Unit II ADJUSTMENT CO EFFICIENT

14 Hrs

Definition and calculation of the adjustment coefficient for a compound Poisson process in simple cases, Definition of the probability of ruin in infinite/finite and continuous/discrete time, Relationships between the different probabilities of ruin, Lundberg's inequality, The significance of the adjustment coefficient in Lundberg's inequality, The effect on the probability of ruin, in both finite and infinite time, of changing parameter values, The effect on the adjustment coefficient and on the probability of ruin of simple reinsurance arrangements.

Unit III: TECHNIQUES FOR ANALYZING A RUN-OFF (OR DELAY)

16 Hrs

Techniques for analysing a run-off (or delay) triangle and projecting the ultimate position, Use of a statistical model to underpin a run-off triangles approach, Definition of a development factor, Use of a set of assumed development factors to project the future development of a run-off triangle, Application of the basic chain ladder method for completing the run-off triangle, Adjustment of the basic chain ladder method to make explicit allowance for inflation, Alternative ways for deriving development factors appropriate for completing the run-off triangle, Application of average cost per claim method for estimating outstanding claim amounts, Application of the Bornhuetter-Ferguson methods for estimating outstanding claim amounts, The assumptions underlying the chain ladder, average cost per claim.

UNIT IV: DEVELOPMENT OF SPREAD SHEET MODEL

16 Hrs

Development of a spreadsheet model to solve a specified problem; summarizing data using appropriate descriptive statistics and graphical representation, Performing checks on the data and results, Production of an audit trail, documenting: the parameters given in the scenario, the methods used in the model, checks made on the data and results

SKILL DEVELOPMENT

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BOOKS FOR REFERENCE

- 1.

B.A. - (OPTIONAL - Tourism and Travel Management)
Detailed Curriculum - (2004-2005)

(SEMESTER SCHEME)

3 years - 6 Semesters

SEMESTER I
PAPER I - TOURISM - FOUNDATION AND HISTORY

SEMESTER II
PAPER II - TOURISM PRODUCT

SEMESTER III
Paper III - TRAVEL AGENCY AND TOUR OPERATOR ORGANISATIONS

SEMESTER IV
Paper IV - TOURISM MANAGEMENT

SEMESTER V
Paper V - TOURISM POLICY
Paper VI - TOURISM IN INDIA

SEMESTER VI
PAPER VII - ENTREPRENEURSHIP DEVELOPMENT PROGRAM
PAPER VIII - EMERGING CONCEPTS FOR EFFECTIVE TOURISM DEVELOPMENT

Mohini Patel
28-06-2008

PAPER I

TOURISM - FOUNDATION AND HISTORY

1. **INTRODUCTION TO TOURISM AS AN INDUSTRY**
Definition, Meaning, Scope, Nature, Importance, Components, Typology, Motivating factors, Classification.
2. **ORIGINS OF TOURISM**
Tourism in ancient times. Forerunners of Modern Tourists - Peregrines - Traders by land and sea-pilgrims - Trips sprives to cure ailments. Influence of the French Revolution on Tourism.
3. **ASCENT OF TOURISM**
Beginnings of Tourism to 1849 - Tourism upto the First World War (the age of Coal and Steam) - origin of conducted Tourists Services of Thomas Cook - Tourism 1914-1935, Effects of the World Economic Depression on Tourism. Political Aspects of Tourism during Second World War, Impact of Second World War on Tourism, Growth and development of tourism as an industry in India since independence
4. **THE INTERNATIONAL TOURIST ORGANIZATIONS**
The International Union of Official Travel Organisation (IUOTO), International Union of National Tourist Propaganda (INUTPC), The World Tourism Organization (WTO), UFTAA, IATA, WTTC, PATA, ASTA.

BOOKS FOR REFERENCE:

29. Dennis L Foster - An Introduction to Travel and Tourism
30. Christopher J.Holloway - The Business of Tourism : Macdonald and Evans, 1983.
31. Stephan J Page - Tourism Management
32. Tapan K.Pandya and Sitikanita Mishra - Tourism Industry in India
33. A.K.Bhatia - Tourism Development, Principles and Practices : Sterling publishers (p) Ltd New Delhi.
34. Anand M.M - Tourism and Hotel Industry in India : Sterling publishers (p) Ltd New Delhi.
35. Kaul.R.H - Dynamics of Tourism : A trilogy Sterling Publishers (p) Ltd New Delhi.
36. IITM - Growth of Modern Tourism - monograph : IITM, New Delhi, 1989.
37. IITM - Tourism as an industry-monograph : IITM, New Delhi, 1989.
38. Burhat and Medlick - Tourism - Past, present and future
39. Wahab, S.E - Tourism Management, Tourism International Press, London 1986.
40. Brymer, Robert A - Introduction to Hotel and Restaurant Management : Hub publication, Co.,Lowa, 1984.
41. Riccline J.R.Brent - Travel and Tourism Hospitality Research, London, 1982.
42. Surinder Aggarwat - Travel agency.
43. A.K Bhatia - Introduction to Tourism, New Delhi, 2002

PAPER II

TOURISM PRODUCT

1. **RESOURCES: NATURAL AND MOUNTAIN**
Tourist Resources - Definition and Differentiation, Natural Tourist Resources - Rich Diversity in Landform, Landscape, Outstanding Geographical features, Climate, Water Bodies, Flora, Fauna. Mountain Tourist Resource - with special reference to the Himalayas and other Hill Stations across India
2. **RESOURCES: ISLANDS, BEACHES AND DESERTS**

60032

Islands and Beaches - with special reference to Andaman and Nicobar Islands, Goa, Lakshadweep and other potential destinations. Coastal Areas, Desert Resources in India - Geological structure, existing facilities, Safaris.

3. SOCIO CULTURAL RESOURCES I

Performing Arts of India, Classical Dances and Dance Styles, Centre of Learning and Performances. Indian Folk Dances. Music and Musical Instruments - Schools of Indian Music. Handicrafts of India as potential Tourist Resources.

4. SOCIO CULTURAL RESOURCES II

Fairs and Festivals - Social, Religious, and Commercial, Tourist Promotional Fairs - Kite Festival, White Water Festival, Snake Boat Race, etc. Indian Folk Culture, Indian Folk Culture - Custom and Costumes, Settlement Patterns, Religious Observation, Folk-lore and Legends

5. HISTORICAL RESOURCES

Architectural Heritage of India - India's Architectural Styles adopted over the ages. Historic Monuments of Tourist significance, ancient medieval and modern their spatial and religious dimensions. Important Historic / Archaeological sites, Museums, Art Galleries, Libraries their location, assets and characteristics. Religious Shrines / Centres - Hindu, Buddhist, Jain, Sikh, Muslim, Christian, and Others. Centres - Ayurveda, Yoga, Meditation.

Note: A tour of local places of interest should be arranged

BOOKS FOR REFERENCE:

14. Percy Brown - Indian Architecture Hindu and Buddhist period.
15. Dennis L Foster - An Introduction to Travel and Tourism
16. Tapan K. Panda and Sitikantha Mishra - Tourism Industry in India
17. Harle J.C - The Art and Architecture of Indian Sub Continent.
18. Stephan J Page - Tourism Management
19. Bhartiya Vidya Bhawan - Imperial Unity
20. Bhartiya Vidya Bhawan - Classical age.
21. Acharya Ram - Tourism and Cultural Heritage of India: ROSA Publication (Jaipur, 1986)
22. Basham A.L. - The Wonder that was India: Rupa and Co. Delhi-1988.
23. The Gazette Of India - History and Culture, Vol.2, publication division, Ministry of Information and Broadcasting, Government of India, 1988.
24. Hussain A.K. - The National Culture of India, National Book Trust, New Delhi-1987.
25. Mukerjee R.K. - The Culture and art of India-George Allen Unwin Ltd, London 1959.

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Paper III --

TRAVEL AGENCY AND TOUR OPERATOR ORGANISATIONS

1. **TRAVEL AGENCY AN INTRODUCTION**
Definition, Functions, Organizational Structure of Travel Agencies and Tour Operators.
2. **TYPES OF TRAVEL AGENCIES, DUTIES, AND SERVICES**
Types of Travel Agencies and Tour Operators. Procedures to become a Travel Agency or
Tour Operator in India, Duties and Responsibilities of Staff and Managers, Services and Products
offered by Travel Agencies and Tour Operators. Revenue or Income of the Travel Agents and
Tour Operators.
3. **AIRLINE TICKETING**
Introduction to Airline Ticketing, Airline Geography, Domestic Air Ticketing and Fare
Calculation, Airfare Calculation
4. **RAILWAYS AND AIRLINES**
Indian Railways, Brief Study of International Railways, Indian Airlines, Private Airlines in India,
The Cruise Industry
5. **INTERNATIONAL TRAVEL REGULATIONS**
Inbound and Outbound Regulations, Passports, Visa, Permits, Economic Regulations, Customs,
Airport Tax, Currency Regulations, Health Regulations.

BOOKS FOR REFERENCE:

23. Mohinder Chaud - Travel Agency Management An Introductory Text.
24. Dennis L Foster - An Introduction to Travel and Tourism
25. Stephan J Pace - Tourism Management
26. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
27. Merissen Jome.W - Travel Agents and Tourism.
28. David H.Howel - Principal and Methods of scheduling reservations(national publishers) 1987.
29. Agarwal, Surinder - Travel Agency Management (Communication India 1983)
30. Geo, Chack - Professional Travel agency management: Prentice Hall London,1990.
31. Bhatia A.K - Tourism Development-principles and policies sterling publishers, 1991 New Delhi.
32. Iliam Coriye - Travel in India.
33. National Publishers - The World of Travel, National Publishers Delhi 1979.

TOURISM MANAGEMENT

1. CHARACTER OF MODERN TOURISM

Prevailing types of tourism, Changes in the facilities, trade unions and tourism. Means of accommodation (hostel, dormitory, prices etc.)

2. TOURISM MARKETING

Service dimension and characteristics of tourism product, Marketing functions in tourism, promotion of tourism, Customer Relation Management (CRM), Public Relations and Communication for Tourism Managers

3. TOURISM ACCOMMODATION

Essentials of Tourist accommodation and catering unit, Primary and Secondary forms of Accommodation, Hotels, Motels, Resorts, Floatels, Classification of Hotels. Basis for Classification. Room Rates, Types, Reservation and Billing Procedures etc.

4. TRANSPORTATION

Importance and its impact on Tourism - modes of Transport (Railways, roads, shipping and Airways) journey-type of ticket and principles of ticketing. Travel agency (advisory bureau, customs office, passport office, leading travel agencies).

5. MARKETING STRATEGIES AND LINKAGES

Developing Marketing Strategies for Service Firms. Linkage of Marketing in Tourist components - Travel Agency, Tour Operators, Hotels and other forms of Accommodation, Catering, Food and Nutrition

Note: The students shall have institutional training for 3 weeks at leading Tourist offices, customs office, tourist hotels and agencies.

BOOKS FOR REFERENCE:

27. P C Sinha - Tourism Marketing
28. Dennis L. Foster - An Introduction to Travel and Tourism
29. Stephan J Page - Tourism Management
30. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
31. Kotler Philips - Marketing Management, PHI, New Delhi.
32. Maccarthy D.K.J, Basic Marketing-A Management Approach.
33. Douglas Foster - Travel and Tourism Management.
34. Negi.M.S - Tourism and Hoteliering.
35. Wahab.S.Grampter - Tourism Marketing, Tourism International Press, London 1976.
36. Stephan.F.Witt - Tourism Marketing and Management Handbook, prentice Hall, New York, 1985.
37. Renal A. Nykiel L - Marketing in Hospitality Industry (2nd ED.) Van Nestrland Reinhold, 1986.
38. Maclean, Hunter - Marketing Management (Tourism in your business), Canadian Hotel and Restaurant Ltd, 1984.
39. Kenneth E.Clow and David L.Kurtz - Services Marketing, Biztantra Publications.

TOURISM POLICY

1. TOURISM POLICY

Management Strategies, Tourism Policy Analysis, Tourism Legislation Beginnings of statistical measurement in Tourism Statistics of Domestic Tourism – Holiday Surveys (accommodation and passenger surveys) – Statistics of International surveys.)

2. TOURISM PLANNING

Features of Tourism planning, Policy of Tourism – Leisure and Resources – Geographical pattern. Infrastructure and facilities – Planning in Urban and Rural area – Conservation and Management of places of Tourist attraction.

3. ECONOMICS OF TOURISM

Impact of tourism on national and international economic activity, Tourism and international trade and balance of payments

4. IMPACTS AND WORLD HERITAGE CENTERS

- Impacts of Tourism - Economical, Social, Physical, and Environmental
- World Heritage Tourist Centres, Concept and list

BOOKS FOR REFERENCE:

21. Ratandeep Singh - National Eco-Tourism and Wildlife Tourism
22. Prabhas Chandra - International Eco-Tourism
23. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
24. Stephen J Page - Tourism Management
25. Praveen Sethi - Handbook on Sustainable Tourism
26. Reports of World Tourism Organization.
27. State Tourism Policy of Karnataka, Andhra Pradesh, Tamilnadu, Kerala, Rajasthan, Assam

TOURISM IN INDIA

1. **HISTORY OF TOURISM IN INDIA**
Tourism during the golden era and the great civilisations, Impact of invasions and foreign rule in India, Development of tourism in India since 1947
2. **INDIA AS A TOURIST DESTINATION**
India – A Land for all reasons and all seasons. Tourism resources of India – Richness and diversity of tourism resources of India, Branding of India and Indian states, Promotion of tourism in India
3. **TOURIST FACILITIES IN INDIA**
Sargent Committee Report 1945, Indian Constitution and Tourism, Tourist Organisation, National Tourist Organisation, Creation of the Directorate General of Tourism. Regional Offices Indian Tourism Development Corporation. Accommodation industry-Hotel standards and rate structure committee 1957, shortage of hotel accommodation.
4. **FOREIGN TOURISTS AND INDIAN VALUE SYSTEM**
Indian Airways. Indian Railways, Defects in Indian Tourism. Unsatisfactory transportation levels of Tourist organisation, National/Regional.

Note: A tour of about three weeks to important places of Art and Architecture, Sea shores and places of historic importance shall be arranged for the students.

BOOKS FOR REFERENCE:

1. Percy Brown - Indian Architecture Hindu and Buddhist period.
2. Dennis L. Foster - An Introduction to Travel and Tourism
3. Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
4. Harle J.C - The Art and Architecture of Indian Sub Continent.
5. Stephan J Page - Tourism Management
6. Bhartiya Vidya Bhawan - Imperial Unity.
7. Bhartiya Vidya Bhawan - Classical age.
8. Acharya Ram - Tourism and Cultural Heritage of India: ROSA Publication (Jaipur, 1986)
9. Basham.A.L - The Wonder that was India: Rupa and Com Delhi-1988.
10. The Gazette Of India - History and Culture, Vol.2, publication division, Ministry of Information and Broadcasting, Government of India, 1988.
11. Hussain.A.K - The National Culture of India, national Beek Trust, New Delhi-1987.
12. Mukerjee.R.K - The Culture and art of India-George Allen Unwin Ltd, London 1959.

PAPER VII

ENTREPRENEURSHIP DEVELOPMENT PROGRAM

1. **ENTREPRENEURSHIP**
Introduction to Entrepreneur, Entrepreneurship and Enterprise - Importance and relevance of the entrepreneur - Factors influencing entrepreneurship - Pros and Cons of being an entrepreneur - Women entrepreneurs, problems and promotion - Types of Entrepreneurs - Characteristics of a successful entrepreneur - Competency requirement for entrepreneurs - Awareness of self competency and its development

2. **SMALL SCALE INDUSTRIES**

Small scale industries/ Tiny industries/Ancillary industries/ Cottage Industries - definition, meaning, product range, capital investment, ownership patterns - Importance and role played by SSI in the development of the Indian economy - Problems faced by SSI's and the steps taken to solve the problems - Policies governing SSI's.

3. **STARTING A SMALL INDUSTRY**

To understand what constitutes a business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture - location, clearances and permits required, formalities, licensing and registration procedures - Assessment of the market for the proposed project - To understand the importance of financial, technical and social feasibility of the project.

4. **PREPARING THE BUSINESS PLAN (BP)**

What is a BP? Why is it important? Who prepares it?
Typical BP format

- a. Financial aspects of the BP
- b. Marketing aspects of the BP
- c. Human Resource aspects of the BP
- d. Technical aspects of the BP
- e. Social aspects of the BP

Preparation of BP - Common pitfalls to be avoided in preparation of a BP

5. **IMPLEMENTATION OF THE PROJECT**

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's, and Tax Concessions - Assistance for obtaining raw material, machinery, land and building and technical assistance - Industrial states - role and types

6. **SICKNESS IN SSI'S**

Meaning and definition of a sick industry - Causes of industrial sickness
Preventive and remedial measures for sick industries

BOOKS FOR REFERENCE:

41. Mark. J. Dollinger, Entrepreneurship - Strategies and Resources, Pearson Edition.
42. Udai Pareek and T.V. Rao, Developing Entrepreneurship
43. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
44. Srivastava, A Practical Guide to Industrial Entrepreneurs
45. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
46. Bharusali, Entrepreneur Development
47. Vasanth Desai, Management of Small Scale Industry
48. Vasanth Desai, Problems and Prospects of Small Scale Industry
49. CSV Murthy, Entrepreneurial Development
50. Entrepreneurial Development - Dr. Anil Kumar, S.C. Poornima, Miani K. Abraham, Jayashree K.

PAPER VIII

EMERGING CONCEPTS FOR EFFECTIVE TOURISM DEVELOPMENT

1. RELEVANT CONCEPTS AND APPROACHES FOR EFFECTIVE TOURISM DEVELOPMENT

- National Development Council Report on Tourism Development
- National Action Plan 1992 Onwards
- Policies on Tourism and Civil Aviation
- Tourist Traffic and its improvisation
- Destination Development

2. SUSTAINABLE AND ECO-TOURISM

- Sustainable Tourism and Eco-Tourism – Definition, Functions, Objectives
- National and State Level Eco-Tourism Guidelines

3. WILDLIFE

- National Wildlife Tourism – India
- National and International Guidelines for Wildlife Tourism

4. TOURISM POLICY

- Management Strategies, Tourism Policy Analysis, Tourism Legislation

5. CRM, PR AND COMMUNICATION FOR TOURISM MANAGERS

- Customer Relation Management – Fundamentals
- Importance of Public Relation and Communication Skill in Tourism

BOOKS FOR REFERENCE:-

- Ratandeep Singh - National Eco-Tourism and Wildlife Tourism
- Prabhas Chandra - International Eco-Tourism
- Tapan K Panda and Sitikantha Mishra - Tourism Industry in India
- Stephan J Page - Tourism Management
- Praveen Sethi - Handbook on Sustainable Tourism
- National Development Council Report.
- National Action Plan, 1992.
- Reports of World Tourism Organization.
- Report-Workshop on Tourism Legislation-August 10-11, 1987. IITTM, New Delhi.
- Report-Workshop on Tourism Legislation-February 23-23, 1988



BANGALORE UNIVERSITY

REVISED SYLLABUS 2014 – 2015

B.B.A. (CBCS) DEGREE SEMESTER SCHEME

(Revised Syllabus on 15.06.2015 BOS)

DEPARTMENT OF COMMERCE

Central College Campus, Bangalore – 560 001.


BANGALORE UNIVERSITY
DEPARTMENT OF COMMERCE

REGULATIONS PERTAINING TO B.B.A (CBCS) DEGREE SEMESTER SCHEME 2014 - 15

I. OBJECTIVES :

1. To develop ethical managers with inter disciplinary knowledge'
2. To develop entrepreneurs
3. To prepare students to take the responsibility of full line of Finance function of a company with special reference to SME sector.
4. To prepare students to take the responsibility of full line of Marketing function of a company with special reference to SME sector.
5. To prepare students to take the responsibility of full line of Human Resource function of a company with special reference to SME sector.
6. To develop IT enabled global middle level managers for solving real life business problems.
7. To develop business analysts for companies, capital markets and commodity markets.
8. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
9. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two years Pre – University course of Karnataka State or its equivalent are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Management (B.B.M). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Management (Hon.) {B.B.M, (Hon.)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be in English.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.

- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

See Annexure – 1

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA & BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII. SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:
75% to 80% = 02 marks.
81% to 85% = 03 marks.
86% to 90% = 04 marks.
91% to 100% = 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. PROJECT REPORT AND VIVA-VOCE:

- a) The Project report in the sixth semester carries 100 marks (70 marks for project report and 30 marks for viva – voce) which shall form part of Sixth semester examination.
- b) There shall be single valuation of project report and this will be done simultaneously along with Vive - Voce. Internal Assessment does not carry any marks.
- c) A batch of Two (02) Project Report and Viva – Voce Examiners shall evaluate and conduct Viva - Voce examinations for a maximum of Thirty (30) Project Reports and Conduct Viva – Voce Examinations for

the same candidates.

- d) The principal of the college shall submit the project reports of the students, to the university within three days after the completion of Viva - Voce examination.
- e) Candidate shall obtain a minimum of 40% marks (Including Viva-Voce) in this subject (project Report) failing which he she shall revise and resubmit before the commencement of the next examination. However, no student shall be allowed to resubmit the project report after three consecutive chances.
- f) The student who fails to submit the project report shall not be permitted to take the examination.
- g) The board of examiners or their nominees' shall conduct viva-voce examination for Project Report.

XI. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has submitted the prescribed application for the examination along with the required fees to the university.
- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XII. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XIII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIV. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize

or any other award.

XV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous uncleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XVI. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVII. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVIII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

ANNEXURE – 1

BANGALORE UNIVERSITY
B.B.A (CBCS) COURSE SEMESTER SCHEME -- 2014 – 15
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu / Malayalam/ Additional English / Marathi / Hindi	1.1	4	3	30	70	100	2
	Language: English	1.2	4	3	30	70	100	2
Part 2 Optional	Fundamentals of Accounting	1.3	4	3	30	70	100	2
	Business Organization and Environment	1.4	4	3	30	70	100	2
	Quantitative Methods for Business - I	1.5	4	3	30	70	100	2
	Management Process	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	2.1	4	3	30	70	100	2
	Language: English	2.2	4	3	30	70	100	2
Part 2 Optional	Financial Accounting	2.3	4	3	30	70	100	2
	Quantitative Methods for Business – II	2.4	4	3	30	70	100	2
	Organizational Behavior	2.5	4	3	30	70	100	2
	Production and Operations Management	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	3.1	4	3	30	70	100	2
Part 2 Optional	Soft Skills for Business	3.2	4	3	30	70	100	2
	Corporate Accounting	3.3	4	3	30	70	100	2
	Human Resource Management	3.4	4	3	30	70	100	2
	Business Regulations	3.5	4	3	30	70	100	2
	Corporate Environment	3.6	4	3	30	70	100	2
	Business Ethics	3.7	4	3	30	70	100	2
Part 3	SDC*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: Kannada / Sanskrit / Urdu / Tamil / Telugu/Malayalam / Additional English / Marathi / Hindi	4.1	4	3	30	70	100	2
Part 2 Optional	Business Research Methods	4.2	4	3	30	70	100	2
	Marketing Management	4.3	4	3	30	70	100	2
	Financial Management	4.4	4	3	30	70	100	2
	Services Management	4.5	4	3	30	70	100	2
	Banking Regulations & Operations	4.6	4	3	30	70	100	2
	Cost Accounting	4.7	4	3	30	70	100	2
Part 3	SDC*		3	3	30	70	100	2
	CC & EC*				50	-	50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurial Management	5.1	4	3	30	70	100	3
	Computer Applications in Business	5.2	4	3	30	70	100	3
	Investment Management	5.3	4	3	30	70	100	3
	Management Accounting	5.4	4	3	30	70	100	3
	Elective Paper I	5.5	4	3	30	70	100	3
	Elective Paper II	5.6	4	3	30	70	100	3
Part 3	SDC*		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	International Business	6.1	4	3	30	70	100	3
	E-Business	6.2	4	3	30	70	100	3
	Income Tax	6.3	4	3	30	70	100	3
	Strategic Management Or Project Report & Viva (Voce)	6.4	4	3	30	70	100	3
	Elective Paper III	6.5	4	3	30	70	100	3
	Elective Paper IV	6.6	4	3	30	70	100	3
Part 3	SDC*		3	3	30	70	100	2
Total Credits								20

ELECTIVE GROUPS

1. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	FN.5.5	Advanced Financial Management	04	100
	FN.5.6	Financial Markets & Services	04	100
VI	FN.6.5	International Finance	04	100
	FN.6.6	Stock and Commodity Markets	04	100

2. MARKETING GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	MK.5.5	Consumer Behavior	04	100
	MK.5.6	Advertising & Media Management	04	100
VI	MK.6.5	Brand Management	04	100
	MK.6.6	Retail Management	04	100

3. HUMAN RESOURCE GROUP

Semester No.	Paper No.	Title of the Paper	Lecture Hours Per Week	Total Marks
V	HR.5.5	Employee Welfare & Social Security	04	100
	HR.5.6	Strategic HRM	04	100
VI	HR.6.5	Organizational Change & Development	04	100
	HR.6.6	Compensation Management	04	100

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in Finance

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3 FUNDAMENTALS OF ACCOUNTING

OBJECTIVE

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing business organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING 08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions. Accounting Standards –List of Indian Accounting Standards.

Unit 2: ACCOUNTING PROCESS 10Hrs

Meaning – Process of Accounting – Kinds of Accounts – Rules - Transaction Analysis – Journal – Ledger – Balancing of Accounts – Trial Balance – Problems.

Unit 3: SUBSIDIARY BOOKS 10 Hrs

Meaning – Significance – Types of Subsidiary Books – Purchases Book – Sales Book – Purchase Returns Book – Sales Return Book – Bills Receivable Book – Bills Payable Book – Cash Book (Simple Cash Book, Double Column Cash Book, Three Column Cash Book and Petty Cash Book) and Journal proper. Bank Reconciliation Statement – Preparation of Bank Reconciliation Statement.

Unit 4: FINAL ACCOUNTS OF PROPRIETARY CONCERN 10 Hrs

Preparation of Profit & Loss Account and Balance Sheet (Vertical form).

Unit 5: SINGLE ENTRY SYSTEM 18Hrs

Meaning – Features – Types – Merits – Demerits – Differences between single entry and double entry systems – Preparation of Opening Statement of Affairs, Closing Statement of Affairs, Computation of Profit/Loss and Revised Statement of Affairs. Conversion of single entry to double entry system.

SKILL DEVELOPMENT

- List out the accounting concepts and conventions.
- List out any ten errors disclosed by trial balance
- Collect the final accounts of a proprietary concern and present it in vertical form.
- Prepare a Bank Reconciliation Statement with imaginary figures

BOOKS FOR REFERENCE

1. Jawaharlal & Seema Srivastava: Financial Accounting, HPH
2. R.G Saha, Fundamentals of Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting, HPH
4. Dr. Venkataraman R. & others, Fundamentals of Accounting, VBH
5. S Jayapandian: Financial Accounting from Zero,
6. Grewal and Gupta, Advanced Accounting, Sultan Chand.
7. S. P Jain and K. L. Narang ; Financial Accounting, Kalyani Publishers.
8. Soundra Rajan A & K. Venkataramana, Financial Accounting, SHB Publishers.
9. Dr. Alice Mani: Fundamentals of Accounting, SBH.

1.4 BUSINESS ORGANISATION AND ENVIRONMENT

OBJECTIVE

The objective is to familiarize the students with aspects of Business Organization and its Environment.

Unit 1: INTRODUCTION TO BUSINESS ORGANIZATION

10 Hrs

Meaning of Business – Classification of Business Activities – Industry – Types of Industry – Commerce – Trade – Aids to Trade – Meaning – Advantages and Disadvantages

Unit 2: FORMS OF BUSINESS ORGANIZATION

14Hrs

Sole Proprietorship – Meaning – Characteristics – Advantages and Disadvantages. Partnership – Meaning – Characteristics – Advantages and Disadvantages - Types of Partners. Co-operative Society - Meaning – Characteristics – Types – Advantages and Disadvantages.

Unit 3: JOINT STOCK COMPANY

08 Hrs

Meaning – Definition – Features – Types of Companies – Formation of a Company.

Unit 4: BUSINESS ENVIRONMENT

14Hrs

Meaning and Importance. Dimensions of Business Environment – Political, Economic, Social, Legal, Natural and Technological Environment.

Unit 5: GOVERNMENT AND BUSINESS

10Hrs

Meaning and Importance. Impact of Government policy on business and industry with reference to liberalization, privatization and globalization.

SKILL DEVELOPMENT

- Draw a Business Tree
- Prepare a Partnership deed
- Prepare Memorandum and Articles of Association of any company
- Discuss the Impact of Globalization on Indian Business and Industry
- State the impact of Technology on Indian Business

BOOKS FOR REFERENCE

1. Dr. Aswathappa: Essentials of Business Environment, HPH.
2. Francis Cherrunilam : Business Environment, HPH.
3. Muniraju S.K. Podder – Business Organisation & Environment , VBH
4. VivekMittall, – Business Environment, Excel Books, New Delhi.
5. Raj Agarwal – Business Environment, Excel Books, New Delhi.
6. K. Venkataramana, Business Environment, SHB Publishers.
7. Dr. Alice Mani: Business Organization & Environment, SBH.

1.5 QUANTITATIVE METHODS FOR BUSINESS - I

OBJECTIVE

To provide basic knowledge of quantitative methods and their application to commercial situations and for decision making in business.

Unit 1: NUMBER SYSTEM

04 Hrs

Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems)

Unit 2: THEORY OF EQUATIONS

12Hrs

Introduction – Meaning – Types of Equations – Simple, Linear and Simultaneous Equations (only two variables) Eliminations and Substitution Method only. Quadratic Equation – Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Application.

Unit 3: PROGRESSIONS

12 Hrs

Introduction – Arithmetic Progression - Finding the 'nth' term of an AP and Sum to nth term of AP. Insertion of Arithmetic Means in given terms of AP and representation of 3 terms of AP. Geometric Progression – Finding nth term of GP – Sum to 'n'th Term of GP – Insertion of Geometric Means in given Geometric Progression and also representation of 3 terms of GP.

Unit 4: MATRICES AND DETERMINANTS

14Hrs

Introduction, Meaning, types of matrices – operations of addition, subtraction, multiplication of two matrices – problems, transpose of a square matrix. Determinant of a square matrix- minor of an element, co-factor of an element of a determinant. adjoint of a square matrix, singular and non-singular matrices – inverse of a square matrix – Problems on linear equations in two variables using Cramer's rule.

Unit 5: COMMERCIAL ARITHMETIC

14 Hrs

Simple interest, Compound interest including half yearly and quarterly calculations, annuities Percentages, bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. Proportions, third, fourth and inverse proportion - problems.

SKILL DEVELOPMENT

- Calculation of future value of present value.
- Calculation of geometric mean i.e, CAGR.
- Calculation of EMI, Premium amount.

BOOKS FOR REFERENCE

1. A.LeninJothi : financial Mathematics, HPH.
2. Dikshit & Jain : Business Mathematics, HPH
3. Ranganath: Business Mathematics, GK Publications, Mumbai.
4. Dr. R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
5. R. Selvaraj, Quantitative Methods in Management, Excel Books.
6. G.R. Veena & Seema: Business Mathematics and Statistics, I.K. Intl
7. Dr. Sancheti & Kapoor: Business Mathematics and Statistic, Sultan Chand and Sons.
8. Zamarudeen: Business Mathematics, Vikas Publishers.
9. Saha: Mathematics for Cost Accountants, HPH.
10. 7 Lectures – Quantitative Methods for Business – I, HPH

1.6 MANAGEMENT PROCESS

OBJECTIVES:

The objective is to familiarize the students with concepts and principles of Management

Unit 1: INTRODUCTION TO MANAGEMENT

12Hrs

Introduction - Meaning, Nature and Characteristics of Management - Scope and functional areas of Management - Management as a Science, Art or Profession - Management & Administration - Principles of management - Social responsibility of Management and Ethics.

Unit 2: PLANNING

08 Hrs

Nature, importance and purpose of planning - Planning process, Objectives - Types of plans (Meaning only) - Decision making – importance & steps.

Unit 3: ORGANIZING AND STAFFING

14Hrs

Nature and purpose of organization, Principles of organization - Types of organization –Departmentation, Committees - Centralization Vs decentralization of authority and responsibility - Span of Control - MBO and MBE(Meaning only) - Nature and importance of staffing.

Unit 4: DIRECTING AND COORDINATING

14Hrs

Meaning and nature of directing - Motivation theories (Maslow's, Herzberg, McGregor's X & Y theory). Leadership – Meaning -Formal and Informal Leadership – Characteristics - Leadership Styles - Autocratic/Dictatorial - Democratic/Participative, Free reign/Laissez faire Leadership Styles - Communication -Meaning and importance, Barriers to Communication, Types of Communication – Coordination–Meaning, importance and Principles.

Unit 5: CONTROLLING

08Hrs

Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief).

SKILL DEVELOPMENT

- Different types of Organization Charts (structure).
- Chart on Staffing.
- Graphic representation of Maslow's Theory.
- Chart on Media of Communication.
- Draft Control chart for different industries / business groups.

BOOKS FOR REFERENCE

1. Appanniah& Reddy, Management HPH.
2. T. Ramaswamy : Principles of Management, HPH.
3. Rekha & Vibha – Management Process, Vision Book House.
4. Koontz & O'Donnell, Management, McGraw Hill.
5. L M Prasad, Principles of management, Sultan Chand & Sons
6. V.S.P Rao/Bajaj, Management process and organization, Excel Books.

7. Karampal : Management Process & Organizational Behaviour, I.K. Intl
8. Rustum & Davan, Principles and practice of Management.
9. S V S Murthy, Essentials of Management.
10. Thomas. N. Duening& John. M. Ivan cevich, Management, Principles and Guidelines, Biztantra Publications.
11. Tripathi& Reddy, Principles of Management. McGraw Hill
12. Kandepu : Elements of Functional Administration, HPH
13. K. Venkataramana, Management Process, SHB Publishers.
14. Dr. Alice Mani: Management Process, SBH.

2.3 FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and Techniques influencing Business Organizations.

Unit 1: INSURANCE CLAIMS

10Hrs

Introduction – Need – Policy for Loss of Stock – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Computation of Fire insurance claims.

Unit 2: HIRE PURCHASE AND INSTALLMENT SYSTEMS

12Hrs

Introduction – Meaning – Hire Purchase Act 1972 – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor. Installment System – Meaning – Features – Differences between Hire Purchase System and Installment Purchase System (Theory only)

Unit 3: ROYALTY ACCOUNTS

12Hrs

Introduction – Meaning – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under Fixed Period – Floating Period – Recoupment within the Life of a Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee – Preparation of Ledger Accounts – Royalty Account – Landlord Account – Short Workings Account – Minimum Rent Account when Minimum Rent Account is required.

Unit 4: SALE OF PARTNERSHIP TO A LIMITED COMPANY

14Hrs

Introduction – Need for conversion - Meaning of Purchase Consideration – Mode of Discharge of Purchase Consideration – Method of calculation of Purchase Consideration – Net Payment Method – Net Asset Method – Passing of Journal Entries and Preparation of Ledger Accounts in the books of Vendor – Treatment of certain items – Dissolution Expenses – Unrecorded Assets and Liabilities – Assets and Liabilities not taken over by the Purchasing Company – Contingent liabilities – Non-assumption of trade liabilities – Passing of Incorporation entries in the books of Purchasing Company.

Unit 5: ISSUE OF SHARES

8 Hrs

Meaning of Share, Types of Shares – Preference shares and Equity shares – Issue of Shares at par, at Premium, at Discount, Pro – Rata Allotment – Journal Entries and Bank Accounts – Preparation of Balance Sheet in the Vertical form.

SKILL DEVELOPMENT

- Problems on calculation of purchase consideration when a firm is converted into a limited company
- Computation of cash price, interest components and hire purchase installments taking any problem
- Understand the meaning and purpose of loss of stock insurance including the average clause
- A problem on royalty highlighting the significance of minimum rent and recoupment of short workings

BOOKS FOR REFERENCE

1. Anil Kumar & Others – Financial Accounting
2. M.A.Arunachalam&K.S.Raman: Advanced Accountancy
3. B.S. Raman, Advanced Accountancy Vol II
4. V.K. Goyal, Financial Accounting 2nd Edition
5. Shukla and Grewal, Advanced Accountancy
6. Gupta and Radhaswamy, Advanced Accountancy Vol I& II
7. Agarwal and Jain, Advanced financial Accounting
8. Guruprasad Murthy : Financial Accounting
9. Maheshwari, Advanced Accountancy Vol I & II
10. B.M. Lall Nigam & G.L. Sharma, Advanced Accountancy
11. S.N. Maheshwari& S.K. Maheshwari, Financial Accounting
12. Jain S.P &Narang K.L, Basic Financial Accounting
13. Soundra Rajan A & K Venkataramana, Financial Accounting, SHB Publishers.
14. Dr. Alice Mani: Financial Accounting, SBH.

2.4 QUANTITATIVE METHODS FOR BUSINESS - II

OBJECTIVE

The objective is to provide basic knowledge of quantitative methods and their commercial application for decision making in business.

Unit 1: INTRODUCTION TO STATISTICS **04 Hrs**

Background and Basic concepts: Introduction – Definition of Statistics – Functions – Scope – Limitations, Classification and Tabulation of Data.

Unit 2: MEASURES OF CENTRAL TENDENCY **14 Hrs**

Introduction – Types of averages – Arithmetic Mean (Simple and Weighted) – Median – Mode – Graphic location of Median and Mode through Ogive Curves and Histogram.

Unit 3: MEASURES OF DISPERSION AND SKEWNESS **14 Hrs**

Part – 1: Measures of Dispersion : Meaning– Calculation of Absolute and Relative measures of dispersion - Range – Quartile Deviation – Mean Deviation – Standard Deviation and Coefficient of Variation.

Part – 2: Measures of Skewness: Meaning of Skewness - Symmetrical & Skewed Distributions- Measures of Skewness - Absolute and Relative Measures of Skewness – Karl Pearson's Coefficient of Skewness and Bowley's Coefficient of Skewness

Unit 4: CORRELATION AND REGRESSION ANALYSIS **14Hrs**

Correlation – Meaning & Definition - Uses – Types – Probable error – Karl Pearson's & Spearman's Rank Correlation (Excluding Bi-variate and Multiple correlation).

Regression – Meaning and Definition, Regression Equations - Problems

Unit 5: INDEX NUMBERS **10 Hrs**

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregate Method – Simple Average of Price Relative Method – Weighted Index numbers – Fisher's Ideal Index (including Time and Factor Reversal tests) – Consumer Price Index – Problems

SKILL DEVELOPMENT

- Collect the age statistics of 10 married couples and compute correlation coefficient.
- Collect the age statistics of 10 newly married couples and compute regression equations. Estimate the age of bride when age of bridegroom is given.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate cost of living index.

BOOKS FOR REFERENCE

1. S P Gupta: Statistical Methods- Sultan Chand, Delhi
2. C.R.Reddy : Quantitative Techniques for Management Decisions, HPH.
3. Dr. B N Gupta: Statistics (SahityaBhavan), Agra.
4. R.S Bhardwaj: Business Statistics, Excel Books.

5. Chikodi & Prasad – Quantitative Method for Business - II
6. Veerchamy : Operation Research I.K. International Publishers
7. S C Gupta: Business Statistics, Himalaya Publications.
8. Ellahance : Statistical Methods
9. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
10. C.S Mujawar : Statistics for Managers I.K. International Publishers
11. Dr. Alice Mani: Quantitative Methods for Business - II, SBH.

2.5 ORGANISATIONAL BEHAVIOUR

OBJECTIVE:

The objective is to enable the students to understand the Organizational Behaviour, and Organizational Change and dynamic of groups .

Unit 1: ORGANIZATIONAL BEHAVIOUR

06Hrs

Organization Behaviour– Definition, Scope and Application in Management -Contributions of other disciplines to OB–Emerging issues in Organizational Behaviour.

Unit 2: PERSONALITY, PERCEPTION AND ATTITUDES

16 Hrs

Personality :Meaning - Determinants of Personality - Biological factors - Cultural factors - Family and Social Factors - Situational factors -Personality attributes influencing OB, Interactive Behaviour and Interpersonal Conflict.

Perception :Meaning - Need - Perceptual Process – Perceptual Mechanism - Factors influencing perception.

Attitude: Meaning of Attitude - Characteristics of Attitude – Components of Attitude - Attitude and Behaviour – Attitude formation, change in attitude and barriers to attitude.

Unit 3: LEARNING AND BEHAVIOUR MODIFICATION

08Hrs

Principles of Learning & Reinforcement - Observational Learning - Cognitive Learning - Organizational Behaviour Modification - Steps in Organizational Behaviour Modification process - Organizational Reward Systems

Unit 4: GROUP DYNAMICS

12Hrs

Meaning - Types of Groups - Functions of small groups - Group Size Status - Managerial Implications – Group Behaviour - Group Norms - Cohesiveness - Group Think,

Unit 6: ORGANIZATIONAL CHANGE AND DEVELOPMENT

14Hrs

Organizational Change: Meaning - Nature of work change - Pressure for change - Change process - Types of change – Factors influencing change - Resistance to change - Overcoming resistance - **Organizational Development**–Meaning and different types of OD interventions.

SKILL DEVELOPMENT

- Meaning of job enrichment and list the requirements of job enrichments
- Characteristics of attitude and components of attitude – A brief discussion
- List the determinants of personality
- Factors influencing perceptions - A brief explanation
- List the characteristics of various leadership styles.

BOOKS FOR REFERENCE

1. K. Aswathappa, Organizational Behaviour, HPH.
2. Appanniah&, Management and Behavioural Process, HPH.
3. Rekha & Vibha – Organizational Behavioural, VBH.

4. Robbins, Organizational Behaviour, International Book House.
5. John W. Newstrom & Kieth Davis, Organizational Behaviour, McGraw Hill.
6. P.G. Aquinas Organizational Behavior, Excel Books.
7. Fred Luthans, Organizational Behaviour. McGraw Hill.
8. M. Gangadhar. V.S.P.Rao and P.S.Narayan, Organizational Behaviour
9. M.N.Mishra: Organisational Behaviour and Corporate Development, HPH.
10. Karamapl : Business Management & Organizational Behavioral I.K. International
11. N.S. Gupta, Organizational Behaviour, HPH.
12. Jit. S. Chandan, Organisational Behaviour, Vikas Publishing House.
13. Sharma R.K & Gupta S.K, Management and Behaviour Process, Kalyani Publishers.
14. K. Venkataramana, Organisational Behaviour, SHBP.

2.6 PRODUCTION AND OPERATIONS MANAGEMENT

OBJECTIVE

The objective of the subject is to make the students understand the concepts of production and operations management of an industrial undertaking and the benefits of automation.

Unit 1: INTRODUCTION TO PRODUCTION AND OPERATIONS MANAGEMENT 12Hrs

Introduction - Meaning & Definition – Classification - Objectives and Scope of Production and operation Management -Automation: Introduction – Meaning and Definition – Need – Types - Advantages and Disadvantages.

Unit 2: PLANT LOCATION AND LAYOUT 08 Hrs

Introduction – Meaning & Definition - Factors affecting location, theory and practices, cost factor in location - Plant layout principles - space requirement- Different types of facilities, Organization of physical facilities – building, sanitation, lighting, air conditioning and safety.

Unit 3: MATERIALS MANAGEMENT 08Hrs

Introduction – Meaning & Definition - Purchasing, Selection of Suppliers, Inventory Management, Material Handling Principles and Practices, Economic Consideration, Criteria for Selection of Materials Handling Equipment, Standardization, Codification, Simplification, Inventory Control, Techniques of

Unit 4: PRODUCTION PLANNING AND QUALITY CONTROL 16Hrs

Objectives and Concepts, capacity planning, corresponding production planning, controlling, scheduling routing – Quality Control - Statistical Quality Control, Quality Management, Control charts and operating characteristic curves, acceptance sampling procedures, Quality Circle, Meaning of ISO and TQM. Productivity – factors influencing productivity - Concept of Standard Time, Method study, Time and Motion Study, Charts and Diagrams, Work Measurements

Unit 6: MAINTENANCE AND WASTE MANAGEMENT 12Hrs

Introduction – Meaning – Objectives - Types of maintenance, Break down, spares planning and control, preventive routine, relative advantages, maintenance scheduling, equipment reliability and modern scientific maintenance methods - Waste Management - Scrap and surplus disposal, salvage and recovery.

SKILL DEVELOPMENT

1. Visit any industry and list out the stages of PPC with as many details as possible.
2. List out the Functions of Materials management in an organization
3. Describe the Functions of Quality Circles in an industry
4. Draw a ISO specification chart
5. Visit a company and List out Environmental issues.
6. Visit a company and draw a chart on Plant layout.

BOOKS FOR REFERENCE

1. Ashwathappa. K & Sridhar Bhatt : Production & Operations Management, HPH.
2. Gondhalekar&Salunkhe : Productivity Techniques, HPH.
3. SN Chary, Production & Operations Management, McGraw Hill.
4. U. Kachru, Production & Operations Management, Excel Books.
5. Alan Muhlemann, John Oaclank and Keith Lockyn, Production & Operations Management, PHI.
6. K KAhuja, Production Management, CBS Publishers.
7. S.A. Chunawalla& Patel: Production & Operations Management, HPH.
8. Everett E Adam Jr., and Ronald J Ebert, Production & Operations Management, Sage Publishers.
9. Dr. L. N. Agarwal and Dr. K.C. Jain, Production Management
10. Thomas E. Morton, Production Operations Management, South Western College.
11. K. Venkataramana, Production Operations Management, SHBP.
12. Sridhara Bhatt - Production & Operation Management, HPH.
13. Ghousia Khaloon – Production & Operation Management, VBH.

3.2 SOFT SKILLS FOR BUSINESS

OBJECTIVE:

The objective is to develop both oral and written communication skills relating to organizational and Business issues

Unit 1: ELEMENTS OF COMMUNICATION 14Hrs

Meaning, Importance, Objectives & Principles of Communication, , Process, impediments of effective communication, Strategies for effective communication. Types and forms of communication
Nonverbal Communication- Body Language, Gestures, Postures, Facial Expressions, Dress codes, The Cross Cultural Dimensions of Business Communication, Listening & Speaking, Techniques of Eliciting Response, Probing Questions, Observation, Business and social etiquette.

Unit 2: PUBLIC SPEAKING 10 Hrs

Importance of Public Speaking and Speech Composition - Principles of Effective Speaking& Presentations. Technical speeches & Non-technical presentations. Speech for introduction of a speaker - Speech for vote of thanks -Occasional speech - Theme speech. Moderating programs - Use of Technology

Unit 3: INTERVIEW TECHNIQUES 08 Hrs

Importance of Interviews, Art of conducting and giving interviews, Placement interviews - discipline interviews - Appraisal interviews – Exit interviews.

Unit 4: MEETINGS 08Hrs

Importance of Meetings -Opening and Closing Meetings - Participating and Conducting Group discussions. Brain Storming, e– Meetings, preparing agenda and minutes of the meeting

Unit 5: BUSINESS COMMUNICATION 16Hrs

Business Letters: Inquiries, Circulars, Quotations, Orders, Acknowledgments Executions, Complaints, Claims &Adjustments, Collection letter, Banking correspondence, Agency correspondence, Bad news and persuading letters, Sales letters, Job application letters - Bio-data, Covering Letter, Interview Letters, Letter of Reference. Memos, Minutes, Circulars &Notices.

SKILL DEVELOPMENT

- Conduct a mock meeting and draft minutes of the meeting.
- Draft a letter of enquiry to purchase a laptop.
- Draft your bio-data.
- Prepare your Career Plan.

BOOKS FOR REFERENCE

1. Rai & Rai – Soft Skill for Business, HPH
2. Santhosh Kumar – Soft Skill for Business, VBH.
3. C.G.G Krishnamacharyulu&Lalitha :Soft Skills of Personality Development, HPH.
4. Lesikar, R.V. &Flatley, M.E. (2005). Basic Business Communication Skills for

- Empowering the Internet Generation. Tata McGraw Hill Publishing Company Ltd.,New Delhi.
5. Rai&Rai: Business Communication Himalaya Publishing House
 6. Rajkumar, Basic of Business Communication
 7. Ludlow, R. & Panton, F. (1998). The Essence of Effective Communications. Prentice Hall of India Pvt. Ltd.
 8. M.S. Rao : Soft Skills – Enhancing Employability I.K. International PH.
 9. Rao& Das : Communication Skills, I.K. International PH.
 10. Adair, J. (2003). Effective Communication. Pan McMillan.
 11. Thill, J. V. &Bovee, G. L. (1993). Excellence in Business Communication. McGrawHill, New York.
 12. Bowman, J.P. &Branchaw, P.P. (1987). Business Communications: From Process to Product. Dryden Press, Chicago.
 13. Sharma S.P. & Others, Business Communication, VBH.
 14. Banerjee : Soft Skills Business and Professional Communication, I.K. International

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive understanding about the provisions of the Company's Act and Corporate Accounts.

Unit 1: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts – Treatment of Special Items – Managerial Remuneration – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends (Theory only) – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet as per Section 219(1)(b) (IV) and form 23AB. Abridged Profit and Loss Account – Abridged Balance Sheet (Vertical Form).

Unit 2: FINANCIAL STATEMENTS ANALYSIS

10 Hrs

Analysis of financial statements – comparative statements, comparative income statement, comparative Balance sheet – common size statements – Common size income statement, common size Balance Sheet – Trend percentages. Reporting to management – Management Decision and Analysis.

Unit 3: VALUATION OF GOODWILL

8Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill - Average Profit Method – Super Profit Method – Capitalization of Super Profit Method – Annuity Method – Capitalization of Profit Method.

Unit 4: VALUATION OF SHARES

8 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation – Asset Backing or Intrinsic Value Method – Yield Method – Earning Capacity Method – Fair Value Method - Rights Issue and Valuation of Rights Issue.

Unit 5: HOLDING COMPANY ACCOUNTS

10 Hrs

Introduction – Meaning of Holding Company – Subsidiary Company – Steps – Pre Acquisition Profits – Post Acquisition Profits – Minority Interest – Cost of Control or Capital Reserve – Unrealized Profit – Mutual Indebtedness – Preparation of Consolidated Balance Sheet (As per AS21).

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect a Prospectus of a company and identify the reasons to invest or not to invest in shares.
- List the various functions of underwriters.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the net Asset value of shares
- List out the conditions to be fulfilled for redemption of Preference shares.

BOOKS FOR REFERENCE

1. Anil Kumar - Marriappa – Corporate Accounting , HPH.
2. M.A.Arunachalam & K.S.Raman: Corporate Accounting – II, HPH.
3. Dr. S.N. Maheswari , Financial Accounting, Jain Book Depot.
4. V.K. Goyal: Corporate Accounting, PHI.
5. Soundrarajan A & K. Venkataramana, Corporate Accounting, SHBP.
6. S. P. Jain and K. L. Narang – Corporate Accounting, Kalyani Publishers.
7. SP Iyengar, Advanced Accountancy, Sultan Chand and Sons, New Delhi.
8. R L Gupta, Advanced Accountancy, Sultan Chand and Sons, New Delhi..

3.4 HUMAN RESOURCE MANAGEMENT

OBJECTIVE

The objective is to familiarize the students with concepts and principles of Human Resource Management.

Unit 1: HUMAN RESOURCE MANAGEMENT 10 Hrs

Introduction – Meaning of HRM – Objectives of HRM – Importance of HRM – Functions and Process of HRM – HR Manager - Duties and Responsibilities – Recent trends in HRM.

Unit 2: HUMAN RESOURCE PLANNING, RECRUITMENT & SELECTION 14 Hrs

Meaning – Importance of Human Resource Planning – Benefits of Human Resource Planning. Recruitment – Meaning – Methods of Recruitment. Selection – Meaning – Steps in Selection Process – Problems Involved in Placement.

Unit 3: INDUCTION AND TRAINING 08Hrs

Meaning, objective and purpose of Induction: Training- Need for training, benefits of training, identification of training needs and methods of training.

Unit 4: PERFORMANCE APPRAISAL AND COMPENSATION 10Hrs

Introduction – Meaning and Definition – Objectives – Methods of Performance Appraisal – Uses and Limitations of Performance Appraisal. Compensation – Meaning of Compensation – Objectives of Compensation.

Unit 5: PROMOTION AND TRANSFERS 08Hrs

Meaning and Definition of Promotion - Purpose of promotion, basis of promotion, Meaning of transfer, reasons for transfer, types of transfer, right sizing of work force, need for right sizing.

Unit 6: HUMAN RESOURCE DEVELOPMENT 06Hrs

Meaning of HRD, Role of training in HRD, Knowledge Management, Knowledge Resources, Impact of Globalization on Human Resource Management, Problems in relation to Transnational and Multinationals.

SKILL DEVELOPMENT

- Prepare a Chart showing the functions of HRM and a brief explanation on the need for each function.
- Prepare an advertisement for recruitment / selection of candidates for any organization of your choice.
- Give observation report of industrial safety practices followed by any organization of your choice
- Develop a format for performance appraisal of an employee.
- Choose any MNC and present your observations on training programme.

BOOKS FOR REFERENCE

1. Aswathappa, Human Resource Management, Tat McGraw Hill.
2. Madhurimalall, Human Resource Management, HPH.
3. Reddy & Appanniah, Human Resource Management. HPH.
4. C.B.Mamoria, Personnel management, HPH.
5. Edwin Flippo, Personnel management, McGraw Hill.
6. SubbaRao, Personnel and Human Resources management, HPH.

7. S.Sadri& Others: Geometry of HR, HPH.
8. Rajkumar : Human Resource Management I.K. Intl
9. Michael Porter, HRM and human Relations, Juta & Co.Ltd.
10. Biswanath Ghosh, Human Resource Development and Management.
11. Rekha & Vibha – Human Resource Management, VBH.
12. K. Venkataramana, Human Resource Management, SHBP.
13. Dr. Alice Mani: Human Resource Management, SBH.

3.5 BUSINESS REGULATIONS

OBJECTIVE

The objective is to introduce the students to various regulations affecting business and to familiarize the students with such regulations.

Unit 1: INTRODUCTION TO BUSINESS LAWS **06 Hrs**

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Law, Fundamental Rights and Directive Principle of State Policies, Principles having economic significance, Overview of Business Laws in India.

Unit 2: CONTRACT LAWS **14 Hrs**

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract (all essentials need to be explained in great detail), classification of contracts, breach of contract and remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

Unit 3: INFORMATION LAWS AND RTE **10Hrs**

Right to Information Act, 2005: Objectives of the RTI Act, Scope, SuoMoto disclosure, Method of seeking information, Eligibility to obtain information, Authorities under the Act,.

Right to Education Act: Objectives of the RTE Act – Salient Features.

Unit 4: COMPETITION AND CONSUMER LAWS **12Hrs**

The Competition Act, 2002: Objectives of Competition Act, the features of Competition Act, components of Competition Act, CCI, CAT, offences and penalties under the Act.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Consumer Protection Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission, any two landmark judgments of the Supreme Court.

Unit 5: ECONOMIC AND ENVIRONMENTAL LAWS **14Hrs**

FEMA 1999: Objects of FEMA, definition of important terms – authorized dealer, currency, foreign currency, foreign exchange, foreign security, Directorate of Enforcement, salient features of the FEMA, offences and penalties,

Environment Protection Act, 1986: Objects of the Act, definitions of important terms – environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, global warming, causes for ozone layer depletion, carbon trade, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOK REFERENCE

1. K. Aswathappa, Business Laws, Himalaya Publishing House,
2. K.R. Bulchandni: Business Laws, HPH.
3. N.D. Kapoor, Business Laws, Sultan chand publications.
4. S.S. Gulshan, Business Law 3rd Edition, New Age International
5. S.C. Sharama & Monica : Business Law I.K. International
6. Tulsian Business Law , Tata McGraw-Hill Education
7. Dr. K. Venkataraman, SHB Publications.
8. Kamakshi P & Srikumari P, Business Regulation
9. Dr. Alice Mani: Business Regulations, SBH.

3.6 CORPORATE ENVIRONMENT

OBJECTIVE

The objective is to enable the students to get familiarized with the existing Company Law and Secretarial Procedure.

Unit 1: FORMATION OF COMPANY **14Hrs**

Promotion of Company – Promotion – Incorporation – Capital Subscription and Certificate of Commencement of Business. **Memorandum of Association** – Definition – Clauses. **Articles of Association** – Definition – Contents – Distinction between Memorandum of Association and Articles of Association – Alteration of Memorandum of Association and Articles of Association. **Prospectus** – Meaning – Contents – Statement in Lieu of Prospectus.

Corporate Social Responsibility initiatives under Companies Act 2013 (Section 135)

Unit 2: CAPITAL OF COMPANY **10 Hrs**

Share Capital – Meaning of Shares – Kinds of Shares – Merits and Demerits of Shares. Debentures – Meaning – Features – Types – Merits and Demerits, Listing of Shares.

Unit 3: COMPANY MEETINGS **12 Hrs**

Meaning and Definition – Types of Meeting – Statutory Meeting – Annual General Meeting – Extraordinary General Meeting – Board Meeting and Resolutions.

Unit 4: COMPANY SECRETARY **10Hrs**

Meaning and Definition – Position – Appointment – Rights – Duties – Liabilities – Qualification and Removal of Company Secretary.

Unit 5: WINDING UP OF COMPANIES **10 Hrs**

Modes of winding up – commencement of winding up – consequences – official liquidator – powers and duties of liquidator.

SKILL DEVELOPMENT

- Drafting of Memorandum of Association, Drafting of Articles of Association.
- Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
- Drafting Resolutions of various meetings – different types.
- Chart showing Company's Organization Structure.
- Chart showing different types of Companies.
- A case study on CSR initiatives of any one company

BOOKS FOR REFERENCE

1. Maheshwari&Maheshwari, Elements of Corporate Laws, Himalaya Publishers
2. Dr. P.N. Reddy and H.R. Appanaiah, Essentials of Company Law and Secretarial Practice, Himalaya Publishers.
3. M.C. Shukla&Gulshan, Principles of Company Law, S. Chanda & Co.
4. Pradeep K. Shinde, Corporate Environment, VBH.
5. C.L. Bansal, Business & Corporate law, Excel Books.
6. N.D. Kapoor, Company Law and Secretarial Practice, Sultan Chand & Sons.
7. S.S Gulshan, Company Law, New Age International.
8. M.C. Bhandari, Guide to Company Law Procedures, Bhandari Publications.
9. S.C. Kuchal, Company Law and Secretarial Practice, Chaitanya Publishing.
10. K. Venkataramana, Service Management, SHBP.

3.7 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS 12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS 10 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT 12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS 10 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE 12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

4.2 BUSINESS RESEARCH METHODS

OBJECTIVE

The objective is to create an awareness of the Process of Research, the tools and techniques of research and generation of reports

Unit 1: INTRODUCTION TO RESEARCH

14Hrs

Meaning – Objectives – Types of Research – Scope of Research – Research Approaches – Research Process – Research Design – Research Methods Vs Research Methodology - Steps in Research – Problem Formulation – Statement of Research Objective – Exploratory – Descriptive – Experimental Research.

Unit 2: METHODS OF DATA COLLECTION

08 Hrs

Observational and Survey Methods – Field Work Plan - Administration of surveys - Training field investigators - Sampling methods - Sample size.

Unit 3: TOOLS FOR COLLECTION OF DATA

08 Hrs

Questionnaire Design; Attitude measurement techniques – Motivational Research Techniques – Selection of Appropriate Statistical Techniques

Unit 4: STATISTICAL METHODS

18 Hrs

Tabulation of data - Analysis of data –Testing of Hypothesis, Advanced techniques – ANOVA, Chi-Square - Discriminant Analysis - Factor analysis, Conjoint analysis - Multidimensional Scaling - Cluster Analysis (Concepts Only).

Unit 5: REPORT WRITING

08 Hrs

Types of Reports, Business, Technical and Academic Report writing – Methodology Procedure – Contents – Bibliography

SKILL DEVELOPMENT

- Illustrate different types of samples with examples
- Construct a questionnaire for collection of primary data keeping in mind the topic chosen for research
- Narrate your experience using observation technique
- Diagrammatically present the information collected through the questionnaire

BOOKS FOR REFERENCE

1. O.R.Krishnaswamy; Research methodology in Social Sciences, HPH, 2008.
2. R. Divivedi: Research Methods in Behavior Science, Macmillan India Ltd., 2001.
3. J.K. Sachdeva: Business Research Methodology HPH
4. S.N. Murthy, V. Bhojanna: Business Research Methods Excel Books
5. Levin & Rubin: Statistics for Management, Prentice Hall of India, 2002
6. Gupta S; Research Methodology and Statistical Techniques, Deep & Deep Publication (P) Ltd., 2002
7. Thakur D: Research Methodology in Social Sciences, Deep & Deep Publications (P) Ltd., 1998.
8. Tripathi P.C: A Textbook of Research Methodology, Sultan Chand & Sons, 2002.
9. Cooper: Business Research Methods 6th edition, MC Graw Hill,
10. C.R. Kothari, Research Methodology, Vikas Publications
11. Usha Devi N, Santhosh Kumar - Business Research Methodology

4.3 MARKETING MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the concept of marketing and its applications and the recent trends in Marketing.

Unit 1: INTRODUCTION TO MARKETING **10 Hrs**

Meaning & Definition – Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing.

Recent trends in Marketing - Introduction, E-business – Tele-marketing – M-Business – Green Marketing – Relationship Marketing – Retailing – Concept Marketing and Virtual Marketing (Meaning Only).

Unit 2: MARKETING ENVIRONMENT (MACRO) **10 Hrs**

Meaning – Demographic – Economic – Natural – Technological - Political – Legal – Socio - Cultural Environment

Unit 3: MARKETING MIX **20 Hrs**

Meaning – Elements – Product – Product Mix – Product Line – Product Lifecycle – Product Planning – New Product Development – Failure of New Product – Branding – Packing and Packaging. Pricing – Objectives – Factors influencing Pricing Policy and Methods of Pricing. Physical Distribution – Meaning – Factors affecting Channel Selection – Types of Marketing Channels. Promotion – Meaning and Significance of Promotion – Personal Selling & Advertising (Meaning Only).

Unit 4: MARKET SEGMENTATION AND CONSUMER BEHAVIOUR **10 Hrs**

Meaning & Definition - Bases of Market Segmentation – Requisites of Sound Market Segmentation. Consumer Behaviour – Factors influencing Consumer Behaviour and Buying Decision Process.

Unit 5: CUSTOMER RELATIONSHIP MANAGEMENT **06 Hrs**

Meaning and Definition – Role of CRM – Advantages and Disadvantages

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. P N Reddy & Appanniah, Marketing Management, HPH.
2. Kuranakaran, Marketing Management, Himalaya Publishers.
3. Rekha & Vibha, Marketing Management, VBH.
4. Philip Kotler, Marketing Management, Prentice Hall.

5. Bose Biplab, Marketing Management, Himalaya Publishers.
6. J.C. Gandhi, Marketing Management, Tata McGraw Hill.
7. Ramesh & Jayanti Prasad: Marketing Management, I.K. International
8. William J. Stanton, Michael J.Etzel, Bruce JWalker, Fundamentals of Marketing, McGraw Hill Education.
9. Sontakki, Marketing Management, Kalyani Publishers.
10. K. Venkataramana, Marketing Management, SHBP.
11. Dr. Alice Mani: Marketing Management, SBH.

4.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION TO FINANCIAL MANAGEMENT 10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of finance - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of a Sound Financial Planning.

Unit 2: TIME VALUE OF MONEY 10 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity)– Doubling Period – Concept of Valuation – Valuation of Bonds & Debentures – Preference Shares – Equity Shares – Simple Problems.

Unit 3: FINANCING DECISION AND INVESTMENT DECISION 16Hrs

Financing Decisions: Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – EBIT – EBT – EPS – Analysis – Leverages – Types of Leverages – Simple Problems.

Investment Decisions: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques – Payback Period – Accounting Rate of Return – Net Present Value – Internal Rate of Return – Profitability Index - Simple Problems

Unit 4: DIVIDEND DECISION 08 Hrs

Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Provisions under Companies Act in relation to dividends.

Unit 5: WORKING CAPITAL MANAGEMENT 12 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital –Cash Management – Receivables Management – Inventory Management,.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function
- Illustrate operating cycle for at least 2 companies of your choice.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Prepare an ageing schedule of debtors with imaginary figures.
- Capital structure analysis of companies in different industries

BOOKS FOR REFERENCE

1. Reddy, Appananih: Financial Management., HPH
2. Sudrashan Reddy – Financial Management, HPH.
3. Venkataraman R _ Financial Management, VBH.
4. S N Maheshwari, Financial Management., Sultan Chand.
5. R.M.Srivastava : Financial Management –Management and Policy, Himalaya Publishers.
6. Khan and Jain, Financial Management, Tata McGraw Hill.
7. Dr. K.V. Venkataramana, Financial Management, SHB Publications.
8. Sudhindra Bhatt: Financial Management, Excel Books.
9. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
10. M.GangadharRao& Others: Financial Management, Himalaya Publishers.
11. I M Pandey, Financial Management, Vika Publication House.
12. Prasanna Chandra, Financial Management, Tata McGraw Hill.
13. K. Venkataramana, Financial Management, SHBP.
14. Dr. Alice Mani: Financial Management, SBH.

4.5 SERVICES MANAGEMENT

OBJECTIVE

The objective is to familiarize the students with different services and prepare them with requisite skills to manage services.

Unit 1: INTRODUCTION TO SERVICES MANAGEMENT 08 Hrs

Meaning of Services – Concepts - Characteristics of Services – Classification of Services – Growth of Service Sector.

Unit 2: SERVICES MARKETING 18Hrs

Meaning – Differences between Products and Services – Importance of Services Marketing – Marketing Mix for Services – 7 P's (in detail) Managing Demand and Supply in Service Industry. Service Delivery Process: Role of Customer in Service delivery process- Quality issues in Services – GAP Model, Managing moments of Truth

Unit 3: TOURISM AND HOSPITALITY SERVICES 12 Hrs

Introduction – Evolution of Tourism Industry – Concept and Nature of Tourism – Significance of Tourism Industry- Market segmentation in tourism- Marketing mix of Tourism - Recent Trends in Tourism. Hospitality Services: Types of Hotels –Types of Accommodation – Departments in Hotels – Customer care in Hospitality Industry.

Unit 3: BANKING AND INSURANCE SERVICES 12Hrs

Banking - Introduction – Traditional Services – Modern Services – Recent Trends in Banking Services. **Insurance** - Introduction – Meaning and Definition of Insurance – Types of Insurance – Life Insurance – Products of Life Insurance – General Insurance – Types of General Insurance – Insurance Agents and other Intermediaries .

Unit 5: HEALTHCARE AND INFORMATION TECHNOLOGY ENABLED SERVICES (ITES) 6 Hrs

Hospitals – Evolution of Hospital Industry – Nature of Service – Risk involved in Healthcare Services – marketing of medical services – Hospital extension services – Pharmacy, nursing – Medical Transcription. ITES: Introduction – Growth, Types, Job opportunities in ITES.

SKILL DEVELOPMENT

- Prepare a chart on conditions to be complied for Star Hotel Status.
- Procure any two insurance policies (Xerox) and paste them in the record.
- Visit and Travel and Tour agencies and prepare organization chart.
- Interact with tourist operators and identify the areas of tourism management.
- Prepare a chart showing customer service rendered by at least two MF. (Preferably a comparative chart)
- Procedures of Railway ticket booking with specimen of reservation/cancellation slip.
- Procedure for Air ticket booking both domestic and International.

BOOKS FOR REFERENCE

1. S.M. Jha: Services Marketing HPH
2. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition 2001.
3. Sunil B Rao – Service Management , VBH.
4. Shanker, Ravi; Services Marketing – the Indian Perspective; Excel Books, New Delhi; First Edition; 2002
5. Dutta : Service Management, I.K. International
6. Cengiz Hakseveretal – ‘Service Management and Operations’; Pearson Education.
7. K. Venkataramana, Service Management, SHBP.

4.6 BANKING REGULATIONS & OPERATIONS

OBJECTIVE

The objective is to familiarize the students to understand the law and practice of banking.

Unit 1: COMMERCIAL BANKS **08 Hrs**

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Credit Creation of Commercial Banks – Investment Policy of Commercial Banks – Profitability of Commercial Banks. Regulation and Control of Commercial Banks by RBI

Unit 2: BANKER AND CUSTOMER RELATIONSHIP **20Hrs**

Banker and Customer: Meaning of Banker and Customer – Banking Company – General and Special Relationships between Banker and Customer.

Types of Customers and Account holders: Procedure and Practice in opening and conducting the accounts of customers particularly individuals including minors - Joint Account Holders. Partnership Firms - Joint Stock companies with limited liability-Executors and Trustees-Clubs and Associations-Joint Hindu Family

Unit 3: NEGOTIABLE INSTRUMENTS **08Hrs**

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments (Meanings only) – Cheques – Meaning & Definition – Features - Parties – Crossing of cheques – types of crossing. Endorsements – Meaning – Essentials – Kinds of Endorsement.

Unit 4: PAYING BANKER AND COLLECTING BANKER **10 Hrs**

Paying Banker – Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheque.

Collecting Banker – Meaning – Duties & Responsibilities of Collecting Banker – Statutory Protection to Collecting Banker

Unit 5: PRINCIPLES OF BANK LENDING **10 Hrs**

Different kinds of borrowing facilities granted by banks - Loans, Cash Credit, Overdraft, Bills Purchased, Bills Discounted, Letters of Credit - Types of Securities – NPA (Meaning only). Sound principles of Bank Lending.

SKILL DEVELOPMENT

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Past specimen of Travelers Cheques / Gift Cheques / Credit Cheques.
- List customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natrajan: Banking Theory Law and Practice, HPH.
2. Maheshwari. S.N.: Banking Law and Practice, Kalyani Publishers
3. Gagendra Naidu, S. K. Poddar , Law and Practice of Banking, VBH.
4. M. Prakash – Banking Regulation & Operations, VBH.
5. Tannan M.L: Banking Law and Practice in India, Wadhwa and company
6. P.SubbaRao ; Bank Management, HPH.
7. Herbert Percival Sheldon, Peter J. Fidler, Herbert B. Sheldon, Sheldon's Practice and Law of Banking, Mac Donald and Evans
8. V. Iyengar; Introduction to Banking, Excel Books.
9. Kothari N. M: Law and Practice of Banking.
10. Shekar. K.C: Banking Theory Law and Practice, VBH.
11. Venkataramana. K, Banking Regulation, SHBP.

4.7 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and element of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Application of Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14Hrs

Meaning – Types – Direct Material – Indirect Material - Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Setting of Stock Levels – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues – FIFO – LIFO – Weighted Average Price Method and Simple Average Price Method.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types – Direct Labour – Indirect Labour – Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration - Time Rate System – Piece Rate System – Incentive Systems – Halsey plan – Rowan Plan – Taylor’s differential Piece Rate System and Merrick’s Differential Piece Rate System – Problems

Unit 4: OVERHEAD COST CONTROL

14Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption – Machine Hour Rate – Problems.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Classification of costs incurred in the making of a product.
- Identification of elements of cost in services sector.
- Cost estimation for the making of a proposed product.
- Documentation relating to materials handling in a company.
- Collection and Classification of overheads in an organization.
- Discuss the reasons for LTO in organizations..

BOOKS FOR REFERENCE

1. M. N. Arora: Cost Accounting, HPH
2. J.Madegowda: Advanced Cost Accounting, HPH.
3. N.K. Prasad: Cost Accounting, Book Syndicate.
4. Gouri Shankar: Practical Costing, HPH.
5. KhannaPandey&Ahuja : Practical Costing, Sultan Chand.
6. K. S. Thakur: Cost Accounting, New Century Book House Pvt. Ltd.
7. M.L. Agarwal: Cost Accounting, Sahithya Bhawan Publications.
8. Palaniappan & Harihara : Cost Accounting I.K. International
9. Jain &Narang: Cost Accounting, Kalyani Publishers.
10. S.P. Iyengar: Cost Accounting, Sultan Chand.
11. S.N. Maheshwari: Cost Accounting, Mahaveer Publishers.
12. Horngren: Cost Accounting – A Managerial Emphasis, Prentice Hall.
13. Dr.A. Sundra Rajan & Dr. K. Venkataramana, SHB Publications.
14. R.G. Saha & Others – Cost Accounting
15. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.
16. Dr. Alice Mani: Cost Accounting, SBH.

5.1 ENTREPRENEURIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of entrepreneurship and prepare business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

12 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Differences between Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur – Role of Entrepreneur for Economic Development - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Differences between Manager and Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneurs. Entrepreneurship Development- Need – Problems – National and State Level Institutions

Unit 2: SMALL SCALE INDUSTRIES

10 Hrs

Small Scale Industries - Tiny Industries - Ancillary Industries - Cottage Industries – Definition – Meaning - Product Range - Capital Investment - Ownership Patterns - Importance and Role played by SSI in the development of the Indian Economy - Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's

Unit 3: STARTING A SMALL INDUSTRY

12 Hrs

Concept of Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. - An overview of the steps involved in starting a business venture – Location, Clearances and Permits required, Formalities, Licensing and Registration Procedures - Assessment of the market for the proposed project - Importance of financial, technical and social feasibility of the project.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Business Plan, Importance of BP, Preparation of BP, Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

Unit 5: IMPLEMENTATION OF THE PROJECT AND SICKNESS IN SSIs

12 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, KSIDC, KSSIC, IFCI, - Non-financial assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates – Role and Types. Sickness: Meaning and definition of a sick industry - Causes of Industrial Sickness - Preventive and Remedial Measures for Sick Industries

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license to the SS Unit, You propose to start.
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.

- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasant Desai: The Dynamics of Entrepreneurship Development and Management, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Satish Taneja: Entrepreneur Development, HPH.
4. UdaiPareek and T.V. Rao, Developing Entrepreneurship
5. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems, SIET, Hyderabad
6. Srivastava, A Practical Guide to Industrial Entrepreneurs, Sultan Chand.
7. Government of India, Report of the committee on small and medium entrepreneurs, 1975
8. VidyaHattangadi ; Entrepreneurship, HPH.
9. N.V.R. Naidu : Management and Entrepreneurship, I.K. International
10. Bharusali, Entrepreneur Development,
11. K. Venkataramanappa, Entrepreneurial Development, SHB Publications
12. Anil Kumar : Small Business and Entrepreneurship, I.K. International
13. Rekha & Vibha – Entrepreneurial Management, VBH.

5.2 COMPUTER APPLICATION IN BUSINESS

OBJECTIVE

The objective of the subject is to make the students understand the concept of information systems used in business and to know the latest trends in doing business in internet environment.

Unit 1: INTRODUCTION TO INFORMATION SYSTEM 10 Hrs

Meaning and definition of system, information and information system – business information system – Features of Information system – Uses of Business Information Systems, Users of Information Systems – Components of Business Information Systems.

Unit 2: TYPES OF INFORMATION SYSTEMS 14Hrs

Management Support Systems (MSS), Management Information systems, , Transaction Processing systems, Decision Support Systems (DSS), Group Decision Support System (GDSS), Office Automation system, Process Control systems, Executive Information systems, Levels of management and Information systems.

Unit 3: MS OFFICE 12 Hrs

MS Word – editing a document- Formatting – Spell Checking – Page setup, Using tabs, Tables and other features Mail Merge, MS Excel – building work sheet- data entry in work sheets, auto fill – working with simple problems- formula – statistical analysis, sort, charts, MS Power point – Design, Side Show – Presentation.

Unit 4: DATABASE MANAGEMENT SYSTEMS 14 Hrs

Introduction- Purpose of Database Systems, Views of data, Data Models, Database language, Transaction Management, Storage Management, Database Administrator, Database Users, Overall System Structure, Different types of Database Systems

Unit 5: ACCOUNTING SOFTWARE 06Hrs

Introduction to Tally, Opening new company, Safety of Accounts or Password, Characteristics, Making Ledger Accounts, writing voucher, voucher entry, making different types of voucher, correcting sundry debtors an sundry creditors accounts, preparation of Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

SKILL DEVELOPMENT

- Maintain a Record on Practicals.

BOOKS FOR REFERENCE

1. James Obrein, Management Information Systems, Tata McGraw Hill
2. M. Suman _ Computer Application Business, VBH
3. R.G. Saha – Computer Application Business, HPH.
4. Amrutha Gowri & Soundrarajana A, Computer Application Business, SHBP.
5. Manjunath, GunduRao – Computer Business Applications, HPH.
6. Sudaimuthu& Anthony: Computer Applications in Business, HPH.

7. S. Perekar, Anindita Hazra; Computer Application in Business
8. Srivatasava : Enterprise Resource Planning I.K. International
9. S Sadagopan, Enterprise resource planning (ERP), Tata McGraw Hill
10. S.P. Rajagopal, Computer Application in Business
11. C.S.V.Murthy: Management Information, HPH

5.3 INVESTMENT MANAGEMENT

OBJECTIVES:

1. To enable develop skills in analyzing various types of securities.
2. To develop necessary skills in students to design and revise a portfolio of securities.

Unit 1: Introduction Investment Management

10Hrs

Investment management, nature and scope, investment avenues, types of financial assets and real assets, Security return and risk – Systematic and unsystematic risk - sources of risk, Measurement of risk and return, sources of investment information, Fixed income – securities – bonds, preference shares – sources of risk, valuation, duration of bonds – theory of interest rates – yield curve, Bond innovations and their valuation.

Unit 2: Securities Analysis

14Hrs

Analysis of variable income securities, fundamental analysis – analysis of economy, industry analysis, company analysis – financial and non – financial, Equity valuation models, Options, futures, forwards, warrants, and their valuations, Technical analysis – Dow’s theory, charts – Efficient market hypothesis and its implications, Tax aspects of investment, Securities Trading procedure. A Critical Survey of software packages for security analysis.

Unit 3: Portfolio Management

10Hrs

Meaning of portfolio management, portfolio analysis, why portfolios? Portfolio objectives, portfolio management process, selection of securities. Portfolio theory, Markowitz Model, Sharpe’s single index model. Efficient frontier with Lending and borrowing, optimal portfolio capital Asset pricing model, Arbitrage pricing theory two factor and multi factor models.

Unit 4: Portfolio Management Strategies

12Hrs

Bond Portfolio Management strategies, Equity portfolio management strategies, strategies using derivatives, hedging. Portfolio revision – rebalancing plans, portfolio evaluation, Sharpe’s index, Treynor’s measure and Jensen’s measure.

Unit 5: Mutual Funds

10Hrs

Mutual funds, Investors life cycle, Personal investment, Personal Finance, Portfolio Management of funds in banks, insurance companies, pension funds, International investing, International funds management, emerging opportunities. A brief survey of software packages for Portfolio Management.

Skill Development

Seminars, Group Discussion and Case Studies on various aspects of syllabus.

Books for Reference

1. Bombay Stock Exchange Directory.
2. Donald E. Fischer and Ronald J. Jordan: Security Analysis and Portfolio Management, Pearson Ed.
3. Stanely S.C. Haung Maury Stall: Investment Analysis and Management, Allyn and Bacon Inco., Massachusets.
4. Jerome B. Cohen and Edward D. Zinbarg Etal: Investment Analysis and Portfolio Management, Ricchard D., Irwin Inc., Illinois.
5. J.C. Fancis: Investment Analysis and Management
6. Panduan Puneethavarty, Securities Analysis and Portfolio Management, Vikas Pub. House.
7. Fuller & Farrel, Modern Investment and Security Analysis, McGraw Hill International.

5.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

Unit 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

06 Hrs

Meaning – Definition – Objectives – Nature and Scope of Management Accounting – Relationship between Financial Accounting, Management Accounting, and Cost Accounting

Unit 2: RATIO ANALYSIS

16 Hrs

Meaning and Definition of Ratio, Accounting Ratio and Ratio Analysis – Uses – Limitations - Classification of Ratios – Problems on Ratio Analysis - Preparation of Trading and Profit & Loss Account and Balance Sheet with the help of Accounting Ratios

Unit 3: FUND FLOW ANALYSIS

12Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Procedure of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operation – Statement of Sources and Application of Funds – Problems.

Unit 4: CASH FLOW ANALYSIS

12Hrs

Meaning and Definition of Cash Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS-3 – Procedure of Cash Flow Statement – Concept of Cash and Cash Equivalents - Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to AS-3 (Indirect Method Only).

Unit 5: MARGINAL COSTING AND BUDGETORY CONTROL

10Hrs

Marginal Costing: Meaning, Features and Assumptions - Calculation of Break Even Point – Equation Method, Graphic Method, Problems .

Budgetary Control: Introduction – Meaning & Definition of Budget and Budgetary Control – Objectives of Budgetary Control – Classification of Budgets –Functional Budgets – Problems on Flexible Budgets

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. PN Reddy & Appanaiah, Essentials of Management Accounting, HPH.
2. J. Made Gowda: Management Accounting, HPH.
3. R.G. Saha – Management Accounting, VBH.
4. Dr. S.N. Maheswari, Management Accounting, VBH.
5. Sexana, Management Accounting, Tata McGraw Hill
6. Sudhindra Bhatt; Management Accounting, Excel Books.
7. Dr. S.N. Goyal and Manmohan, Management Accounting
8. Jawaharlal : Essentials of Managerial Accounting, HPH.
9. B.S. Raman, Management Accounting, United Publishers.
10. Sharma and Gupta, Management Accounting, S J Publishers.
11. Soundra RajanA & Venkataramana. K, Management Accounting, SHBP.

6.1 INTERNATIONAL BUSINESS

OBJECTIVE

The objective of this subject is to facilitate the students in understanding International Business in a multi cultural world.

Unit 1: INTRODUCTION TO INTERNATIONAL BUSINESS

10Hrs

Meaning and Definition of International Business – Theories of International Trade – Economic Theories – Forms of International Business - Nature of International Business

Unit 2: MODES OF ENTRY INTO INTERNATIONAL BUSINESS

12 Hrs

Mode of Entry – Exporting – Licensing – Franchising – Contract Manufacturing – Turn Key Projects – Foreign Direct Investment – Mergers, Acquisitions and Joint Ventures – Comparison of different modes of Entry.

Unit 3: GLOBALIZATION

16Hrs

Globalization: Meaning - Features – Stages –Production –Investment and Technology, Globalization – Advantages and Disadvantages – Methods and Essential Conditions for Globalization. **MNC's and International Business:** Definitions – Distinction between Indian Companies – MNC – Global Companies and TNC – Organizational Transformations – Merits and Demerits of MNC's in India

Unit 4: INTERNATIONAL MARKETING INTELLIGENCE

8 Hrs

Information required – Source of Information – International Marketing Information System and Marketing Research.

Unit 5: EXIM TRADE

10 Hrs

Export Trade, Procedure, Steps & Documentation, Direction of India's Trade – Export Financing – Documents related to Export Trade – Export Marketing – Import Trade, Procedure, Steps, Documentations and Problems - EXIM Policy - Balance of Payment – Disequilibrium and Measures for Rectification - Institutions connected with EXIM Trade.

SKILL DEVELOPMENT

- List any three MNC's operating in India along with their products or services offered.
- Prepare a chart showing currencies of different countries
- Tabulate the foreign exchange rate or at least 2 countries for 1 month
- Collect and Paste any 2 documents used in Import and Export trade.

BOOKS FOR REFERENCE

1. Dr. Aswathappa International Business, Tata McGraw Hill.
2. P. SubbaRao – International Business – HPH
3. Shyam Shukla; International Business, Excel Books.
4. Francis Cherunilam; International Business, Prentice Hall of India
5. MahuaDutta, International Business, I.K. Intl
6. J. Maskeri- International Business
7. Rosy Joshi; International Business, Kalyani Publishers.
8. Venkataramana. K, International Business, SHBP.
9. Subhasre S – International Business, HPH.

6.2 E-BUSINESS

OBJECTIVE:

The objective is to expose the students to electronic modes of commercial operations.

UNIT 1 :E-BUSINESS

16Hrs

Introduction, E-Commerce – definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. Advantages/ Disadvantages of e-commerce, web auctions, virtual communities, portals, e-business revenue models.

UNIT 2 : SECURITY FOR E-BUSINESS

12 Hrs

Security threats – An area view – implementing E-commerce security – encryption – Decryption, Protecting client computers E-Commerce Communication channels and web servers Encryption, SSL protocol, Firewalls, Cryptography methods, VPNs, protecting, networks, policies and procedures

UNIT 3 : E-PAYMENTS

12Hrs

E-payment systems – An overview. B to C payments, B to B payments. Types of E- payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, agile wallet, smart cards and digital cheques. Secure Electronic Transaction (SET) protocol

UNIT 4 : E-BUSINESS MARKETING TECHNOLOGIES

10 Hrs

E-Commerce and marketing B to B and B to C marketing and branding strategies. Web transaction logs, cookies, shopping cart database, DBMS, SQL, data mining, CRM (customer relationship Management) system – permission marketing, affiliate marketing, viral marketing.

UNIT 5 : CYBER LAWS

06Hrs

Legal Aspects of E-Business, Internet frauds – Cyber Laws. IT Act 2000 salient features.

SKILL DEVELOPMENT

- Visit Few Business Websites and note down in Practical Record Book

BOOKS FOR REFERENCE

1. Marriappa M – E- Commerce,
2. R. G. Saha, E-Business, HPH
3. M. Suman – E – Commerce & Accounting
4. Kalakota Ravi and A. B. Whinston : “Frontiers of Electronic Commerce”, Addison
5. Watson R T :“Electronic Commerce – the strategic perspective.” The Dryden press
6. Agarwala K.N and Deeksha Ararwala: “Business on the Net – Whats and Hows of E-Commerce”
7. Agarwala and Ararwala : “Business on the Net – Bridge to the online store front,”
8. Murthy CSV: “E. Commerce” Himalaya Publishing House Pvt.Ltd.

9. Diwan, Prag and Sharma, "Electronic Commerce – A manager guide to E-business", Vanity Books International
10. P. Diwan, S. Sharma; "E-Commerce", Excel Books.
11. JanalD.S : "Online Marketing Hand book." Van Nostrand Reinhold Network
12. Kosiur David, "Understanding Electronic Commerce Microsoft", press Washing-ton.
13. Minoli and Minol, "Web Commerce Technology Handbook", TMH New Delhi.
14. Schneider Gary P, "Electronic Commerce- course Technology, Delhi.
15. Young Margaret Levine: "The complete reference to Internet", TMH.
16. C.S.Rayudu: "Ecommerce and E Business", HPH.
17. Kalakota Ravi: "E-business 2: Road map for success." Pearson Education Ltd.
18. Kalkota Ravi. "Electronics Commerce": A managers Guide.
19. Mariammal & Soundra Rajan, E-business, SHB.

6.3 INCOME TAX

OBJECTIVE

The objective of this subject is to expose the students to the various provision of Income Tax Act relating to computation of Income individual assesses only.

Unit 1: INTRODUCTION TO INCOME TAX

14 Hrs

Income Tax: Brief History - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment – Assessment Year – Previous Year – Exceptions to the general rule of Previous Year - Assessee – Person – Income - Casual Income – Gross Total Income – Total Income – Agricultural Income

Residential Status: Determination of Residential Status of an individual (simple problems) - Incidence of Tax (Simple Problems on Computation of Gross Total Income).

Exempted Incomes: Introduction – Exempted Incomes U/S 10 (Restricted to Individual Assessee) – Only theory

Unit 2: INCOME FROM SALARY

16 Hrs

Meaning & Definition – Basis of Charge – Allowances – Fully Taxable Allowances – Partly Taxable Allowances: House Rent Allowance, Entertainment Allowance, Transport Allowance, Children Education & Hostel Allowances - Fully Exempted Allowances – Perquisites – Tax Free Perquisites – Perquisites Taxable in all Cases: Rent free accommodation - Concessional accommodation, Personal obligations of the employee met by the employer – Perquisites Taxable in Specified Cases : Gardener, Sweeper, Gas, Electricity, Water and Motor car facility (when the motor car is owned or hired by the employer) – Provident Funds – Deductions from Salary U/S 16 – Problems on Income from Salary(excluding retirement benefits).

Unit 3: INCOME FROM HOUSE PROPERTY

10 Hrs

Basis of Charge – Exempted Incomes from House Property – Annual Value – Determination of Annual Value – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property(Excluding Pre-Construction interest)

Unit 4: PROFITS AND GAINS FROM BUSINESS AND PROFESSION

10Hrs

Meaning and Definition of Business & Profession – Expenses & losses Expressly Allowed – Expenses and losses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on computation of income from Business of Sole Proprietor.

Unit 5: COMPUTATATION OF TOTAL INCOME

06 Hrs

Income from **Capital Gains** (excluding exemptions - Theory only) - **Income from Other Sources** (Theory only) - Deductions U/S 80 C, D & G. Simple problems on Computation of Total income of an Individual

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).

- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.
- Chart on perquisites.
- List of enclosures to be made along with IT returns (with reference to salary and house property incomes)

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhanian: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax, Kalyani Publishers
6. 7 Lecturer – Income Tax – VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications

6.4 STRATEGIC MANAGEMENT OR PROJECT REPORT AND VIVA - VOCE

OBJECTIVE:

The Objective of this subject is to expose the students to the various strategic issues such as strategic planning, implementation and evaluation etc. and preparation of project reports.

Unit 1: INTRODUCTION TO STRATEGIC MANAGEMENT

10 Hrs

Introduction - Meaning and Definition – Need – Process of Strategic Management – Strategic Decision Making – Business Ethics – Strategic Management.

Unit 2: ENVIRONMENTAL APPRAISAL

12 Hrs

The concept of Environment – The Company and its Environment – Scanning the Environment, Technological, Social, Cultural, Demographic, Political, Legal and Other Environments Forces. SWOT Analysis – Competitive Advantage – Value Chain Analysis.

Unit 3: STRATEGIC PLANNING

12 Hrs

Strategic Planning Process – Strategic Plans during recession, recovery, boom and depression – Stability Strategy – Expansion Strategy – Merger Strategy – Retrenchment Strategy – Restructure Strategy – Levels of Strategy – Corporate Level Strategy – Business Level Strategy and Functional Level Strategy – Competitive Analysis – Porter’s Five Forces Model.

Unit 4: IMPLEMENTATION OF STRATEGY

14 Hrs

Aspects of Strategy Implementation – Project Manipulation – Procedural Implementation – Structural Implementation – Structural Considerations –Organizational Design and Change – Organizational Systems. Behavioral Implementation – Leadership Implementation – Corporate Culture – Corporate Policies and Use of Power. Functional and Operational Implementation – Functional Strategies – Functional Plans and Policies. Financial – Marketing – OPERATIONAL and Personnel dimensions of Functional Plan and Policies – Integration of Functional Plans and Policies.

Unit 5: STRATEGY EVALUATION

08 Hrs

Strategy Evaluation and Control - Operational Control - Overview of Management Control – Focus on Key Result Areas.

SKILL DEVELOPMENT

- Present a chart showing Strategic Management Process.
- Select any organization and undertake SWOT analysis.
- Present strategy followed by an FMCG company in Indian Market.
- Select any sector and make competitive analysis using Porter’s five forces model.
- List social responsibility action initiated by any one company.
- Select any organization and identify the Key Result Areas

BOOKS FOR REFERENCE

1. Dr. Aswathappa, Business Environment for Strategic Management, Tata McGraw Hill.
2. Subbarao: Business Policy and Strategic Management, HPH.

3. Charles W.L Hill and Gareth R. Jones, Strategic Management an Integrated Approach, Cengage Learning
4. Azhar Kazmi, Business Policy and Strategic Management, Tata McGraw Hill
5. C. AppaRao; Strategic Management and Business Policy, Excel Books.
6. Ghosh P.K., Business Policy and Strategic Planning and Management, Tata McGraw Hill.
7. Pillai, Strategic Management,
8. Lawrence, Business Policy and Strategic Management, Tata McGraw Hill.
9. Sathyashekar : Business Policy and Strategic Management, I.K International Publishing House Pvt. Ltd.

ELECTIVE GROUPS

1. FINANCE GROUP

F. N 5.5 ADVANCED FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to familiarize the students with Advanced Financial Analysis and Decisions.

Unit 1: INVESTMENT DECISIONS AND RISK ANALYSIS

12 Hrs

Risk Analysis – Types of Risks – Risk and Uncertainty – Techniques of Measuring Risks – Risk adjusted Discount Rate Approach – Certainty Equivalent Approach – Sensitivity Analysis - Probability Approach - Standard Deviation and Co-efficient of Variation – Decision Tree Analysis –Problems.

Unit 2: COST OF CAPITAL AND CAPITAL STRUCTURE

20Hrs

Part 1:Capital Structure: Meaning and Significance of Cost of Capital – Types of Capital – Computation of Cost of Capital – Specific Cost – Cost of Debt – Cost of Preference Share Capital – Cost of Equity Share Capital – Weighted Average Cost of Capital – Problems.

Part 2: Capital Structure: Introduction to Capital Structure – Capital Structure Theories - Net Income Approach - Net Operating Income Approach - Traditional Approach – MM Approach – Problems.

Unit 3: DIVIDEND THEORIES

10 Hrs

Introduction – Irrelevance Theory – MM Model. Relevance Theories - Walter Model - Gordon Model – Problems on Dividend Theories.

Unit 4: PLANNING AND FORECASTING OF WORKING CAPITAL

10 Hrs

Concept of Working Capital – Determinants of Working Capital – Estimating Working Capital Needs – Operating Cycle – Cash Management – Motives of Holding Cash – Cash Management Techniques – Preparation of Cash Budget – Receivables Management – Preparation of Ageing Schedule and Debtors Turnover Ratio – Inventory Management Techniques – Problems on EOQ.

UNIT 5: CORPORATE VALUATION

04 Hrs

DCF method, relative valuation method, net asset method, value based management. (Only concepts)

SKILL DEVELOPMENT

- Preparation of a small project report of a small business concern covering all components- (Finance, Marketing, Production, Human Resources, General administration) (Any one component can be selected as a title of the report)
- Designing a capital structure for a Trading concern
- Preparing a blue print on working capital of a small concern.
- Prepare a chart on Modes of cash budget.
- List out different modes of Dividend Policy.
- List out the Companies, which have declared dividends recently along with the rate of dividend.

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management Principles and Practice, Sultan Chand and sons
2. Sudarshan Reddy: Advance Financial Management, HPH.
3. Narendra Singh : Advanced Financial Management, HPH.
4. Khan and Jain, Financial Management, Tata McGraw Hill
5. Ghousia Khatoon, Mahanada B. C. Advanced Financial Management VBH
6. P.K. Sinha; Financial Management, Excel Books.
7. Sharma and Sashi Gupta, Financial Management, Kalyani Publishers.
8. I M Pandey, Financial Management, Vikas Publishing house
9. Prasanna Chandra, Financial Management, Tata McGraw Hill.
10. Dr. K. Venkataramanappa, SHB Publications

F. N 5.6 FINANCIAL MARKETS & SERVICES

OBJECTIVE

The objective is to familiarize the students with Traditional and Modern Financial Services.

Unit 1: FINANCIAL MARKETS

12 Hrs

Primary Market - Meaning – Features - Players of Primary Market – Instruments in Primary Market (Names) – Procedure for issuing Equity shares and Debentures - SEBI guidelines towards the issue of Equity Shares and Debentures - Merits and Demerits of Primary Markets. Secondary Market – Meaning – Structure – Functions – Trading and Settlement System of Stock Exchange Transactions - Players in the Stock Market – Merits and Demerits of Stock Markets – Reforms in Stock Market – OTCEI and NSE – Origin – Function – Merits – Demerits.

Unit 2: NON-BANKING FINANCIAL INTERMEDIARIES

12 Hrs

Investment & Finance Companies - Merchant Banks - Hire Purchase Finance - Lease Finance - Housing Finance - Venture Capital Funds and Factoring.

Unit 3: SEBI

10Hrs

Objectives of SEBI – Organization - Functions and Functioning of SEBI - Powers of SEBI - Role of SEBI in marketing of Securities and Protection of Investor Interest.

Unit 4: MUTUAL FUNDS

12Hrs

Concept of Mutual Funds - Growth of Mutual Funds in India - Mutual Fund Schemes – Money Market Mutual Funds – Private Sector Mutual Funds – Evaluation of the performance of Mutual Funds – Functioning of Mutual Funds in India.

Unit 5: RECENT TRENDS IN FINANCIAL SERVICES

10 Hrs

Personalized Banking – ATM – Tele-banking & E-banking - Credit & Debit Card - Customization of Investment Portfolio - Financial Advisors.

SKILL DEVELOPMENT

- Collection of Share certificate / debenture certificate.
- Chart showing modus operandi of leasing – hire purchase procedures.
- Collect any specimen of new Financial Instruments and record the same.
- Select any Mutual Fund and examine the various closed and open-ended schemes offered.
- Visit any Housing Finance Companies and analyse the features of various financing schemes offered.

BOOKS FOR REFERENCE

1. E Gardon& K Natarajan: Financial Markets & Services, HPH.
2. Vasant Desai : Financial Markets & Financial Services , Himalaya Publishing House.
3. K.Nanje Gowda, Financial Markets & Financial Services , VBH.
4. V.A. Avadhani : Financial Services in India, HPH.
5. Meir Kohn: Financial Institutions and Markets, Tata Mc Graw Hill
6. R.M Srivastava / D. Nigam; Dynamics of Financial Markets & Institutions in India, Excel Books.
7. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
8. Dr. K. Venkataramanappa, SHB Publications

F.N6.5 INTERNATIONAL FINANCE

OBJECTIVES:

To familiarize the students with International Financial environment, instruments and institutions.

UNIT – 1: INTRODUCTION TO INTERNATIONAL FINANCE

12 Hrs

Issues involved in International Business and Finance, methods of payment, International Monetary system – Fundamental terms and concepts – Home currency – foreign currency – direct quote – indirect quote – bid and ask, spot and forward rate - appreciation and depreciation – cross currency rates.

UNIT – 2: FOREIGN EXCHANGE AND BALANCE OF PAYMENTS

12 Hrs

Forex Market & Its Intermediaries, ADR, Foreign Exchange Rate, Theories of Foreign Exchange Rate Determination.

Components of Balance of Payments – Disequilibrium in the balance of payments- methods of correction of disequilibrium.

UNIT – 3: INSTRUMENTS IN INTERNATIONAL FINANCIAL MARKETS.

08 Hrs

Meaning-Definition-International Financial Markets-Globalization of Capital markets, Innovation in foreign securities and International Portfolio Management.

UNIT – 4: FOREIGN EXCHANGE RISK

10 Hrs

Exchange risks – Hedging, Forward, Future, Swaps Options, -Valuation of future and swaps- valuation of options and efficiency of the exchange market.

UNIT – 5:INTERNATIONAL FINANCIAL INSTITUTIONS AND LIQUIDITY

14 Hrs

The IMF, International liquidity and SDR's (special drawing rights) – International bank for reconstruction and development (World Bank), International development association, International investment guarantee agency.

SKILL DEVELOPMENT:

- Visit any authorized dealers' establishments and understand their activities.
- Analyze the trend of FDI into India in the last five years.

BOOKS FOR REFERENCE:

1. Avadhani B.K, International Finance Theory and Practice, HPH
2. Aswathanarayana T & K. Rajeswari – International Finance – VBH
3. K. Venkataramana, International Finance, SHBP.
4. Harris Manville, International Finance.
5. Madhu Vij, International Finance, Excel Books
6. Keith Pibean, International Finance, McMillan
7. Timothy Carl Kesta, Case and Problems in International Finance.
8. R.M Srivastava , Multinational Financial Management, Pragathi Publications
9. P.A. Apte, International Financial Management, TMH
10. Somanath : International Financial Management I.K. Intl
11. Levi, International Marketing Management.
12. Bandar D.C, International Finance.
13. Murthy E.N, International Finance & Risk Management.
14. M.L. Verma, Foreign Trade & Management in India.
15. Rao and Chary, International Finance.

F. N 6.6 STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of Stock Markets and Commodity Markets, functionaries in these markets and their mode of trading.

Unit 1: AN OVERVIEW OF CAPITAL AND COMMODITY MARKETS: 10Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of commodity and Commodity markets, Difference between Stock Market and Commodity Market.

Unit 2: STOCK MARKET: 12 Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE BSE and Nifty). Derivatives on stocks: meaning, types (in brief).

Unit 3: TRADING IN STOCK MARKET: 12Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL) Central Securities Depository Ltd.(CSDL) (in brief).

Unit 4: COMMODITY MARKET: 12Hrs

Evolution, Commodity derivatives, Commodity exchanges-Regional & National and International, Functions, role, objectives and types- Types of transactions in Commodity market – Spot, Future and Forward options markets.

Unit 5: TRADING IN COMMODITY MARKETS: 10 Hrs

Patterns of Trading & Settlement, Price discover, Efficiency of Commodity Markets - Size of Commodity Markets in India - Benefits of Commodity Markets.

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of share and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Srivastava RM : Management of Financial Institutions, HPH
3. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
4. Bharat Kulkarni; Commodity Markets and Derivatives, Excel Books.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill

6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York
7. PallaviModi: Equity – The Next Investment destination, HPH.
8. Avadhani (2010) Financial Markets and Services, Himalaya Publishers.
9. K. Venkataramanappa, SHB Publications

2. MARKETING GROUP

M.K. 5.5 CONSUMER BEHAVIOR

Unit 1: INTRODUCTION

10 Hrs

Introduction to Consumer Behaviour - A managerial & consumer perspective; Need to study Consumer Behaviour; Applications of consumer behaviour knowledge; current trends in Consumer Behaviour; Market segmentation & consumer behaviour.

Unit 2: INDIVIDUAL DETERMINANTS OF CONSUMER BEHAVIOUR

12Hrs

Consumer needs & motivation; personality and self-concept; consumer perception; learning & memory; nature of consumer attitudes; consumer attitude formation and change.

Unit 3: ENVIRONMENTAL DETERMINANTS OF CONSUMER BEHAVIOUR

12 Hrs

Family influences; Influence of culture; subculture & cross cultural influences; group dynamics and consumer reference groups; social class & consumer behaviour.

Unit 4: CONSUMER'S DECISION MAKING PROCESS

12Hrs

Problem recognition; Search & Evaluation; Purchase processes; Post-purchase behaviour; personal influence & opinion leadership process; Diffusion of innovations; Models of Consumer Behaviour; Researching Consumer behaviour; Consumer research process.

Unit 5: CONSUMER SATISFACTION & CONSUMERISM

10Hrs

Concept of Consumer Satisfaction; Working towards enhancing consumer satisfaction; sources of consumer dissatisfaction; dealing with consumer complaint. Concept of consumerism; consumerism in India; The Indian consumer; Reasons for growth of consumerism in India; Consumer protection Act 1986.

SKILL DEVELOPMENT:

- Conduct an informal interview of a local retail store owner and determine what demographic and socio economic segments the store appears to satisfy. How did the owner select this segment or segments?
- Conduct formal interview to the managers of three retail-clothing stores. Determine the degree to which they believe consumer's personality and self-image are important to the marketing activities of the stores.
- Visit three local restaurants and assess how each attracts clientele in different stages of the family life cycle.
- You are the owner of two furniture stores, one catering to upper-middle class consumers and the other to lower-middle class consumers. How do social class differences influence each store's
 - Product lines & styles
 - Advertising media selection
 - The copy & communication styles used in the advertisements
 - Payment policies
- For each of the following Products & services, indicate who you would go to for information and advice;
 - The latest fashion in clothes

- Banking
- Air travel
- Vacation destinations
- A personal computer
- For each situation; indicate the person's relationship to you and your reasons for selecting him/her as the source of information and advice.

BOOKS FOR REFERENCE:

1. Leon. G. Schiffman & Leslve Lazer Kanuk; Consumer behaviour; 6th Edition; PHI, New Delhi, 2000.
2. Suja.R.Nair, Consumer behaviour in Indian perspective, First Edition, Himalaya Publishing House, Mumbai, 2003.
3. Batra/Kazmi; Consumer Behaviour.
4. David. L. Loudon & Albert J. Bitta; Consumer Behaviour; 4th Edition, Mcgraw Hill, Inc; New Delhi, 1993.
5. K. Venkatramana, Consumer Behaviour, SHBP.
6. Assael Henry; Consumer behaviour and marketing action; Asian Books(P) Ltd, Thomson learning, 6th Edition; 2001.
7. Jay D. Lindquist & M. Joseph Sirgy, Shopper, Buyer and Consumer Behaviour, 2003.
8. Blackwell; Consumer Behaviour, 2nd Edition.
9. S.A.Chunawalla : Commentary on Consumer Behaviour, HPH.
10. Sontakki; Consumer Behaviour, HPH.
11. Schiffman; Consumer Behaviour, Pearson Education.

M.K. 5.6 ADVERTISING & MEDIA MANAGEMENT

Unit 1: INTRODUCTION & BASIC CONCEPTS

12Hrs

History of advertising; Advertising purpose and functions; Economic, social & ethical aspects of advertising; Advertising & the marketing mix, Advertising as a communication process; types of advertising; Major Institutions of Advertising Management.

Unit 2: ADVERTISING AND CAMPAIGN PLANNING

10Hrs

Marketing strategy & Situation analysis; Advertising plan; Advertising objectives; DAGMAR approach; Advertising strategy; Advertising campaign-planning process.

Unit 3: CREATIVE STRATEGY & ADVERTISING BUDGET

12Hrs

Creative approaches; The art of copywriting; Advertising copy testing; creativity in communication, motivational approaches & appeals, Advertising budget process; Methods of determining Advertising appropriations.

Unit 4: ADVERTISING MEDIA STRATEGY

10 Hrs

Role of media; types of media; their advantages and disadvantages; Media research & advertising decisions; media planning, selection & scheduling strategies.

Unit 5: ADVERTISING EFFECTIVENESS & ORGANISING ADVERTISING FUNCTIONS.

12Hrs

Methods of measuring advertising effectiveness; Advertising research; structure & functions of an advertising agency; Selection & co-ordination of advertising agency; Advertising regulations; Internet advertising.

SKILL DEVELOPMENT:

- Sketch the competitive position for the development of an advertising plan for Sahara Airlines & Tata Telephones.
- Define the advertising objectives on DAGMAR Approach for any product of your choice.
- By selecting an appropriate theme & appeal, create & enact an advertisement for a range of any established products. For this purpose, the class should be divided into groups and formal presentations have to be evaluated.
- Select two print & electronic media for the purpose of understanding the functions of advertising media. Comparative analysis of the same should be done & short reports must be prepared.
- Get into the exciting world of internet / Net advertising and identify the message content of 10 products / Services of your choice.

BOOKS FOR REFERENCE:

1. Rajeev Batra, John. G.Myers. T. David.A. Aaker; Advertising Management; 5th Edition, PHI Edition, New Delhi, 1998.
2. Kazmi/Batra; Advertising & Sales promotion 3rd Edition
3. Ghouse Basha, Advertising and Media Management, VBH

4. Jefkins&Yadin; Advertising, 4th Edition; Pearson Education, New Delhi, 2000.
5. Manendra Mohan; Advertising Management - Concepts & Cases; Tata McGraw Hill Publishing company Ltd, New Delhi 2001.
6. K. Venkataraman, Advertising & Media Management, SHBP.
7. S.A.Chunnawalia&K.c.Sethia Foundations of Advertising - Theory & Practice, Himalaya Publishing House, 2002.
8. Sonatakki, Advertising, Kalyani Publishers
9. Wells, Advertising.
10. Rayudu: Media and Communication Management, HPH.

M.K 6.5 BRAND MANAGEMENT

OBJECTIVE

The objective is to enable the students to acquire skills in Product & Brand Management

Unit 1: PRODUCT MANAGEMENT

05 Hrs

Meaning of Product – Product Personality, Types of Products – Product Line, Product Mix.

Unit 2: PRODUCT DEVELOPMENT

12 hrs

Factors influencing design of the product – Changes affecting Product Management – Developing Product Strategy; Setting objectives & alternatives, Product strategy over the lifecycle. New product development – Product Differentiation and Positioning strategies. Failure of New Product.

Unit 3: MARKET POTENTIAL & SALES FORECASTING

10 hrs

Forecasting target market potential and sales – Methods of estimating market and sales potential, Sales forecasting, planning for involvement in international market.

Unit 4: BRAND MANAGEMENT

12 hrs

Meaning of Brand – Brand Development: Extension, Rejuvenation, Re launch- Product Vs Brands, Goods and services, Retailer and distributors, People and organization, Brand challenges and opportunities, The brand equity concept, Identity and image.

Unit 5: BRAND LEVERAGING AND BRAND PERFORMANCE

12 hrs

Establishing a brand equity management system, measuring sources of brand equity and consumer mindset, Co-branding, celebrity endorsement. Brand Positioning & Brand Building – Brand knowledge, Brand portfolios and market segmentation – Steps of brand building, Identifying and establishing brand positioning, Defining and establishing brand values.

Unit 6: DESIGNING & SUSTAINING BRANDING STRATEGIES

05 hrs

Brand hierarchy, Branding strategy, Brand extension and brand transfer – Managing brand over time.

SKILL DEVELOPMENT :

- List out a few celebrity brand endorsements and the appropriateness of using them.
- Draw a chart showing the brand environment
- List out a few recent news and trends about brands
- List out some of the methods of brand valuation
- List out a few brands and the adjectives attached to their ads.

BOOKS FOR REFERENCE

1. Gupta SL: Brand Management, HPH.
2. Branding Concepts- Pati, Debashish, Macmillan India
3. Brand Building : M.Bhattacharjee, HPH.
4. Harsh V. Verma; Brand Management, Excel Books.

5. Subrato Sengupta, Brand Positioning Strategies for Competitive Advantage, McGraw Hill.
6. The New Strategic Brand Management- Kapferer, Jean-Noel, Kogan page 5th edition
7. Das & Naveen, Brand Management Perspectives and Practices, ICFAI University Press.
8. Chaturvedi, B.M, Total Brand Management: An Introduction-, ICFAI University Press.
9. Ray, Brand Management Financial Perspectives, ICFAI University Press.

M.K 6.6 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAILING

10 Hrs.

Definition – functions of retailing - types of retailing – forms of retailing based on ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retailing in India – Influencing factors – present Indian retail scenario. Retailing from the International perspective

Unit 2: RETAIL CONSUMER BEHAVIOUR

12 Hrs.

Buying decision process and its implication to retailing – influence of group and individual factors. Customer shopping behaviour - Customer Service satisfaction. Retail planning process – Factors to consider – Preparing a complete business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS

12 Hrs.

Choice of Store location – Influencing Factors, Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Store Layout and visual merchandising – Store designing – Space planning, Retail Operations - Inventory management – Merchandise Management – Category Management.

Unit 4: RETAIL MARKETING MIX

12 Hrs.

Retail marketing mix –Introduction. **Product** – Decisions related to selection of goods (Merchandise Management revisited) –Decisions related to delivery of service. **Pricing** – Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. **Place** – Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. **Promotion** – Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal.

Unit 5: IMPACT OF IT IN RETAILING

10 Hrs.

Non store retailing (E tailing) The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing. Social issues in retailing. Ethical issues in retailing.

SKILL DEVELOPMENT:

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing

BOOKS FOR REFERENCE

1. Barry Bermans and Joel Evans, "Retail Management – A Strategic Approach", 8th edition, PHI Private Limited, New Delhi, 2002.
2. Suja Nair: Retail Management, HPH.
3. A.J. Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
4. SwapnaPradhan, Retailing Management, 2/e, 2007 & 2008, TMH
5. K. Venkatramana, Retail Management, SHBP.
6. A. Siva Kumar; Retail Marketing, Excel Books.
7. James R. Ogden & Denise T. Ogden, Integrated Retail Management 2007, Biztantra Cengage Learning
8. R.S. Tiwari : Retail Management , HPH
9. Araif Sakh: Retail Management, HPH.
10. Levy & Weitz, Retail Management,, TMH 5th Edition 2002
11. Rosemary Varley, Mohammed Rafiq, Retail Management, Palgrave Macmillan
12. Chetan Bajaj, Retail Management, Oxford Publication.
13. Uniyal & Sinha, Retail Management,, Oxford Publications.

3.HUMAN RESOURCE GROUP

H.R 5.5 EMPLOYEE WELFARE& SOCIAL SECURITY

OBJECTIVE

The objective is to enable students to acquire skills in Labor Welfare & Social Security.

Unit 1: SOCIAL & LABOUR WELFARE

12 Hrs.

Social Welfare; Labour Welfare: Concept, Scope; Philosophy and Principles of Labour Welfare; Indian constitution and Labour Welfare; Labour Welfare Policy and Five Year Plans, Historical Development of Labour Welfare in India;

Unit 2: INDIAN LABOUR ORGANIZATION

12 Hrs.

Impact of ILO on Labour Welfare in India; Agencies of Labour Welfare and their Roles, Labour Welfare Programmes: Statutory and Non-Statutory, Extra Mural and Intra Mural. Welfare Centers; Welfare Officer: Role, Status and Functions.

Unit 3: SOCIAL SECURITY

10 Hrs.

Concept and Scope; Social Assistance and Social Insurance, Development of Social Security in India; Social Security measures for Industrial Employees.

Unit 4: LABOUR ADMINISTRATION – 1

12 Hrs.

Evolution of Machinery for Labour Administration; Central Labour Administrative Machinery in India, Labour Administration in India.

Unit 5: LABOUR ADMINISTRATION – 2

10 Hrs.

Director General of Employment and Training; Director General of Factory Advice Service; Provident Fund Organization; ESI Schemes; Central Board for Workers' Education;

SKILL DEVELOPMENT :

- Preparation of a list of statutory welfare measures by visiting industry
- Preparation of a list of voluntary welfare measures by visiting industry
- Preparation of list of social security measures by visiting industry

BOOKS FOR REFERENCE

1. Moorthy, M.V. Principles of Labour Welfare, Oxford & IBH Publishing Co., New Delhi.
2. Vaid, K.N. Labour Welfare in India, Sree Ram Centre for Industrial Relations and Human Resources, New Delhi.
3. K. Venkataramana, Employee Welfare& Social Security, SHBP.
4. Sharma, A.M. Aspects of Labour Welfare and Social Security, Himalaya Publishing, House, Mumbai.
5. Ram Chandra P. Singh, Labour Welfare Administration in India, Deep & Deep Pub., New Delhi.

6. Punekar, S.D. Deodhar S.B., Sankaran, Saraswathi, Labour Welfare, Trade Unionism and Industrial Relations, Himalaya Publishing House, Mumbai.
7. Pant, S.C., Indian Labour Problems, Chaitanya Publishing House, Allahabad.
8. Saxena, R.C., Labour Problems and Social Welfare, K. Nath & Co., Meerut.
9. Bhogiliwala, T.N. Economics of Labour & Industrial Relations, Sahitya Bhavan Publishing Agra.
10. Memoria, C.B. Dynamics of Industrial Relations in India, Himalaya Publishing. House, Mumbai.

H.R. 5.6 STRATEGIC HRM

OBJECTIVE

The objective is to enable students to acquire skills in Strategic Human Resource Management.

Unit 1: INTRODUCTION TO STRATEGIC HRM

10 Hrs.

Strategic Role of HRM, Planning and Implementing Strategic HR policies, HR Strategies to increase firm performance.

Unit 2: INVESTMENT PERSPECTIVES OF HR

12 Hrs.

Investment Consideration, Investments in Training and Development, Investment Practices for improved retention, Job secure workforce, Nontraditional Investment Approaches.

Unit 3: MANAGING STRATEGIC ORGANIZATION

10 Hrs.

Managing Strategic Organizational Renewal- Managing change and OD, instituting TQM Programmes, Creating Team based Organizations, HR and BPR, Flexible work arrangement.

Unit 4: ESTABLISHING STRATEGIC PLANS

12 Hrs.

Establishing Strategic pay plans, Determining periods, Establishing periods, Pricing Managerial and professional jobs, Compensation trends, Objectives of International Compensation, Approaches to International Compensation, Issues related to double taxation. Cases.

Unit 5: GLOBAL HRM

12 Hrs.

Managing Global Human Resources-HR and the internationalization of business, Improving international assignments through selections, Training and maintaining international employees, Developing International Staff and Multinational Teams - Multinational, Global, and Transnational Strategies - Strategic Alliances, Sustainable Global Competitive Advantage, Globally Competent Managers, Location of Production Facilities.

SKILL DEVELOPMENT:

- Prepare a statement showing man power requirements in an imaginary situation.
- Specimen of a payroll with imaginary roles.
- Preparation of job card with imaginary facts.
- Preparation of questionnaire on performance appraisal

BOOKS FOR REFERENCES

1. Gary Dessler, Human Resource Management, PHI, New Delhi, 2003.
2. Charles R. Greer, Strategic Human Resource Management, Pearson Education, 2003.
3. Mahananda B. C. Strategic Human Resource Management, VBH.
4. Luis R. Gomez-Mejia, David B. Balkin, Robert L. Cardy, Managing Human Resources, PHI,
5. Peter J. Dowling, Denice E. Welch, Randall S. Schuler, International Human Resource Management, Thomson South-Western, 2002.

H.R 6.5 ORGNISATIONAL CHANGE AND DEVELOPMENT

OBJECTIVE:

The objective is to enable the students to understand need for Organizational Change and Development and the OD interventions

Unit 1: CHANGE MANAGEMENT

10Hrs

The importance and nature of change. Change and human response. Introducing change effectively: Basic steps, factors influencing change- resistance to change, overcoming resistance to change

Unit 2: ORGANIZATION EFFECTIVENESS

10Hrs

Organization effectiveness: Concept, problems in measurement of effectiveness. System - level criteria of judging effectiveness.

Unit 3: ORGANIZATIONAL DEVELOPMENT

16 Hrs

The nature of Organizational Development (OD): Assumptions and values. Relevant systems concepts. Action research, OD Interventions: Team interventions, Inter-group interventions, personal, interpersonal and group processes interventions: A descriptive inventory of OD interventions.

Unit 4: OD INTERVENTIONS

10Hrs

Comprehensive interventions, Structural interventions, Job enrichment and MBO, Conditions for optimal success of OD.

Unit 5: CREATIVITY & INNOVATION

10Hrs

Creativity & Innovation: Meaning, Need, Components of Creativity & Innovation, Organizational Constraints, Organizational environment for Creativity & Innovation,

SKILL DEVELOPMENT

- List out the recent OD interventions in Organizations.
- Discuss case studies on Impact of change on Organizational effectiveness.

BOOKS FOR REFERENCE

1. Dunnette, M.D. (Ed.) (1976). Handbook of Industrial and Organizational Psychology. Chicago: Rand McNully.
2. French, W.L.; & Bell, C.H. Jr. (1980). Organizational Development. London, Prentice Hall.
3. Herbert, T.T. (1981). Dimensions of Organizational Behavior. London: MacMillan.
4. Khandwalla, P.N. (1988). Organizational effectiveness. In J. Pandey (Ed.) Psychology in India: The State-of-the Art (Vol.3, pp. 97-215). New Delhi: Sage.
5. Luthans, F. (1989). Organizational Behaviour. London: McGraw Hill.
6. Margulies, N.; & Raia, A.P. (1975). Organizational Development: Values, process and technology. New Delhi: Tata McGraw Hill,
7. McGill, M.E. (1977). Organizational Development for Operating Managers. AMACO (a division of American Management Association).

8. Pareek, U. & Rao, T.V. (1986). *Designing and Managing Human Resources Systems*. New Delhi: Oxford.
9. Rudrabasavaraj, M.N. (1977). *Executive Development in India*. New Delhi: Himalaya Publishing House.
10. Sharma, R.A. (1982). *Organizational Theory and Behaviour*. New Delhi: Tata McGraw Hill,

H.R. 6.6 COMPENSATION MANAGEMENT

OBJECTIVE:

The objective is to enable the students to understand the various aspects of Compensation Management

UNIT-1: JOB EVALUATION AND PERFORMANCE APPRAISAL 10 Hrs

Job Evaluation - Definition - Traditional and New Techniques - Performance Appraisal -Basic concepts - performance standard - Appraisal methods.

UNIT-2: COMPENSATION MANAGEMENT 10 Hrs

Compensation - Definition - Classification - Types - Incentives - Fringe Benefits.

UNIT-3: WAGE AND SALARY ADMINISTRATION 16 Hrs

Theories of wages - wage structure - wage fixation - wage payment - salary administration. Difference between salary and wages - Basis for compensation fixation- Components of wages - Basic Wages - Overtime Wages - Dearness Allowance - Basis for calculation - Time Rate Wages and Efficiency Based Wages - Incentive Schemes - Individual Bonus Schemes, Group Bonus Schemes - Effect of various labour laws on wages-Preparation of Pay Roll

UNIT- 4:REWARDS AND INCENTIVES 10 Hrs

Rewards for Sales personnel - Pay - commission- Performance based pay system - incentives - executives compensation plan and packages.

UNIT- 5: REGULATORY BODIES FOR COMPENSATION MANAGEMENT 10 Hrs

Wage Boards - Pay Commissions - Compensation Management in Multi-National organizations.

SKILL DEVELOPMENT

- List out the fringe benefits offered to employees of any two companies
- Discuss the role of regulatory bodies in compensation management
- List out various Incentive Schemes of wage payments

BOOKS FOR REFERENCE

1. Compensation & Reward Management, BD Singh, Excel Books
2. Compensation, Milkovich & Newman, TMH
3. Strategic Compensation, Joseph J. Martocchio, 3rd Edition, Pearson Education
- 4 Compensation Management in Knowledge based world, Richard I. Anderson, 10th edition, Pearson Education
- 6 Compensation Management, Er Soni Shyam Singh, Excel Books.
7. Richard Thrope& Gill Homen : Strategic Reward Systems - Prentice-Hall.
8. Thomas. P. Plannery, David. A. Hofrichter & Paul. E. Platten: People, Performance & Pay – Free Press.
9. Michael Armstrong & Helen Murlis: Hand Book of Reward Management – Crust Publishing House.
10. Joseph. J. Martocchio: Strategic Compensation – A Human Resource Management Approach - Prentice-Hall.
11. Edwarde. E. Lawler III: Rewarding Excellence (Pay Strategies for the New Economy) – Jossey -Bass.

BANGALORE UNIVERSITY

REGULATIONS, SCHEME AND SYLLABUS

For the course

I to VI Semesters

BACHELOR OF COMPUTER APPLICATIONS

(BCA)

(Choice Based Credit System (Semester Scheme) –Y2K14 Scheme)

Revised w.e.f.

Academic Year 2014-2015 and onwards

**Regulations, Scheme of study and Examination for BCA Degree Course
Under Choice Based Credit System - Semester System (Y2K14 SCHEME)
(Revised w.e.f. 2014 -2015)**

- R 1.**
- a) Title of the course: **Bachelor of Computer Applications**
 - b) Duration of the Course: Durations of the undergraduate programmes shall extend over FOUR semesters (TWO academic years) for the Associate Degree(Advance Diploma), SIX semesters (Three academic years) for the regular Bachelor Degree.
 - c). Scheme of study:
 - i) There shall be five theory papers and two practical from first semester to fourth semester.
 - ii) There will be five theory, two practical and one project in fifth semester. There will be four theory, one practical and one project in sixth semester.
 - iii) The project work shall be carried out either independently or jointly (maximum of three students)
 - iv) Medium of Instruction: The medium of instruction shall be English.
 - d) Scheme of Examination:

At the end of each semester there be University Examination of three hours duration in each of the theory paper/practical.
- R. 2. Each semester shall be of 4 months duration
- R. 3. Attendance: As per Bangalore University regulations In force for science degree courses.
- R. 4. A Candidate is allowed to carry over all the previous uncleared (failed) theory papers/Practical to subsequent semesters as per Bangalore University regulations in force for science degree courses.
- R. 5. The maximum period for completion of the course shall be six years form the date of admission.
- R. 6. Eligibility for admission:
- a) A candidate who has passed the two years Pre-University Examination conducted by the Pre-University Education Board in Karnataka

b) A candidate who has passed JODC / Three years Diploma in Engineering of Government of Karnataka or any other examination considered as equivalent thereto shall be eligible for admission.

a) Any student who has passed PUC –II Science, Arts or Commerce securing a minimum of 35% OF MARKS

OR

b) Any student who has passed JODC or Diploma in Engg. (of three year duration of Govt. of Karnataka) with minimum of 35% of marks in aggregate in all the semester /years.

R. 7. Admission Procedure:

- a) Through Counseling in respective colleges
- b) 50% weight age for entrance test in respective colleges
- c) 50% weight age for performance at qualifying examination.
- d) Merit list shall be prepared based on item No, 7(b) and 7(c)
- e) Reservation: As per the notification /Govt. orders form the University /Govt. from time to time.
- f) Tuition and other fees: As fixed by the University from time to time

R8. The total number of students to be admitted to the course shall be decided by the University.

R9. Results: Results of candidate shall be declared and the classes awarded as per the procedure followed by the University for B.Sc. Courses.

R10. POWER TO REMOVE DIFFICULTIES

1) If any difficulty arises in giving effect to the provisions of these regulations, the Vice-Chancellor may be order make such provisions not inconsistent with the Act, Statutes, Ordinances or other Regulations, as appears to be necessary to expedient to remove the difficulty.

2) Every order made under this shall be subject to rectification by the appropriate University Authorities.

**Title of Papers and Scheme of Study & Examination for BCA (Bachelor of Computer Applications) Under Choice Based Credit System - Semester System
(Revised w.e.f. 2014-2015)**

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
I	Part - 1	BCA101T	Indian Language	4	20	80	100	2	16
		BCA102T	English	4	20	80	100	2	
	Part - 2	BCA103T	Problem Solving Techniques using C	4	30	70	100	2	
		BCA104T	Digital Electronics	4	30	70	100	2	
		BCA105T	Discrete Mathematics	5	50	100	150	3	
		BCA103P	C Programming Lab	3	15	35	50	1	
	Part - 3	BCA104P	Digital Electronics Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
II	Part - 1	BCA201T	Indian Language	4	20	80	100	2	16
		BCA202T	English	4	20	80	100	2	
	Part - 2	BCA203T	Data structures	4	30	70	100	2	
		BCA204T	Database Management System	4	30	70	100	2	
		BCA205T	Numerical and Statistical Methods	5	50	100	150	3	
		BCA203P	Data Structures Lab	3	15	35	50	1	
	Part - 3	BCA204T	DBMS Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
III	Part - 1	BCA301T	Indian Language	4	20	80	100	2	16
		BCA302T	English	4	20	80	100	2	
	Part - 2	BCA303T	Object Oriented Programming using C++	4	30	70	100	2	
		BCA304T	Financial Accounting and Management	4	30	70	100	2	
		BCA305T	Operating System	5	50	100	150	3	
		BCA303P	C++ Lab	3	15	35	50	1	
	Part - 3	BCA304T	Accounting Package Lab	3	15	35	50	1	
		-	Foundation Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			
IV	Part - 1	BCA401T	Indian Language	4	20	80	100	2	16
		BCA402T	English	4	20	80	100	2	
	Part - 2	BCA403T	Visual Programming	4	30	70	100	2	
		BCA404T	Unix Shell programming	4	30	70	100	2	
		BCA405T	Operation Research	5	50	100	150	3	
		BCA403P	Visual Programming Lab	3	15	35	50	1	
	Part - 3	BCA404T	UNIX Lab	3	15	35	50	1	
		-	Skill Development Course	3	30	70	100	2	
-	CC & EC	-	50	-	50	1			

Semester	Part	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
					IA	Exam	Total	Subject	Semester
V	Part - 2	BCA501T	Data Communication and Networks	4	50	100	150	3	20
		BCA502T	Software Engineering	4	50	100	150	3	
		BCA503T	Computer Architecture	4	50	100	150	3	
		BCA504T	Java Programming	4	30	70	100	2	
		BCA505T	Microprocessor and Assembly Language	4	30	70	100	2	
		BCA504P	Java Programming Lab	3	15	35	50	1	
		BCA505P	Assembly Language Programming Lab	3	15	35	50	1	
	BCA506P	Project	8	50	100	150	3		
	Part - 3	-	Skill Development Course	3	30	70	100	2	
VI	Part-2	BCA601T	Theory of Computation	4	50	100	150	3	20
		BCA602T	System Programming	4	50	100	150	3	
		BCA603T	Cryptography and Network Security	4	50	100	150	3	
		BCA604T	Web Programming	4	30	70	100	2	
		BCA604P	Web Programming Lab	3	15	35	50	1	
		BCA605P	Project Work	16	100	200	300	6	
		Part - 3	-	Skill Development Course	3	30	70	100	

FIRST SEMESTER BCA

BCA101T : INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA102T : ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA103T : PROBLEM SOLVING TECHNIQUES USING C

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Programming Concepts: Software, Classification of Software, Modular Programming, Structured Programming, Algorithms and Flowcharts with examples. Overview of C Language: History of C, Character set, C tokens, Identifiers, Keywords, Data types, Variables, Constants, Symbolic Constants, Operators in C, Hierarchy of Operators, Expressions, Type Conversions and Library Functions.

[12 Hours]

Unit - II

Managing Input and Output Operation: Formatted and Unformatted I/O Functions, Decision making, branching and looping: Decision Making Statements - if Statement, if-else statement, nesting of if-else statements, else-if ladder, switch statement,?: operator, Looping - while, do-while, for loop, Nested loop, break, continue, and goto statements. Functions: Function Definition, prototyping, types of functions, passing arguments to functions, Nested Functions, Recursive functions.

[12 Hours]

Unit - III

Arrays: Declaring and Initializing, One Dimensional Arrays, Two Dimensional Arrays, Multi Dimensional Arrays - Passing arrays to functions. Strings: Declaring and Initializing strings, Operations on strings, Arrays of strings, passing strings to functions. Storage Classes - Automatic, External, Static and Register Variables.

[12 Hours]

Unit-IV

Structures-Declaring and Initializing, Nested structure, Array of Structure, Passing Structures to functions, Unions, typedef, enum, Bit fields. Pointers – Declarations, Pointer arithmetic, Pointers and functions, Call by value, Call by reference, Pointers and Arrays, Arrays of Pointers, Pointers and Structures. Meaning of static and dynamic memory allocation, Memory allocation functions.

[12 Hours]

Unit-V

Files - File modes, File functions, and File operations, Text and Binary files, Command Line arguments. C Preprocessor directives, Macros – Definition, types of Macros, Creating and implementing user defined header files.

[12 Hours]

TEXT BOOKS

1. E. Balaguruswamy, "Programming In ANSI C", 4th edition, TMH Publications, 2007
2. Ashok N. Kamthane, "Programming with ANSI and Turbo C", Pearson Education, 2006

REFERENCES BOOKS

1. Ashok N. Kamthane et. al., “Computer Programming and IT”, Pearson Education, 2011
2. Mahapatra, “ Thinking In C ”, PHI Publications, 1998.
3. Yashwant Kanetkar, “Let Us C”, 13th Edition, PHP, 2013.

BCA104T: DIGITAL ELECTRONICS

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to network theorems and AC fundamentals: Ohm’s law: Statement, explanation. Kirchhoff’s law: Statement & explanation of KCL and KVL. Mesh/loop analysis (up to 2 loops) and node voltage method, Numerical problems. Delta/star and star/Delta transformation: No derivation for Interco version equations, introduction of network, port of network (one port network, two port network), unilateral network, bilateral network, linear network. Need for application of network theorems. (DC Circuits only). Superposition theorem: statement, (only with TWO voltage sources) steps to apply the theorem explanation by considering a simple resistive network and problems. Thevenin’s theorem: Statement, (Only with ONE voltage source) Steps to apply the theorem, explanation by considering a simple resistive networking and problems. Norton’s theorem: Statement, (Only with ONE voltage source) steps to apply the theorem, explanation by considering a simple resistive network and problems. Maximum power transfer theorem: Statement, explanation of theorem by considering a simple resisting network, expression for maximum power deliver ($P_L(\max) = V_{th}^2/4R_{th}$) (no derivation), graph of V_s vs P_L , numerical problems and applications. Reciprocity theorem, Statement, explanation using resistive network with dc source and numerical problems. AC Fundamentals: Representation of ac sine wave, instantaneous value, peak value, peak to peak value, average value, r.m.s value cycle, time period, frequency. (No derivations, only mention the expressions) Representation of non sinusoidal waves.

[12 Hours]

Unit - II

Semiconductor Devices: Introduction, atomic structure, energy level, energy band diagram in solids, classification of conductors, insulators and semiconductors. Semiconductor, properties, crystal structure of semiconductor, types – intrinsic and extrinsic semiconductor. Intrinsic semiconductor: Crystal structure (Ge & Si), thermal generated charges (electron and holes) carriers the effect temp on their motion. Extrinsic semiconductor: Doping, donor acceptor impurities, n-type, p-type semiconductor, majority and minority carriers, their currents, concept of immobile ions. Semiconductor devices : PN junction diode, formation of pn junction layer, potential barrier, energy level diagram of pn junction, Biasing of pn junction, behaviour of pn junction under forward and reverse biasing, break down in pn junction, avalanche and zener break down. Diode characteristics; V-I characteristic, forward and reverse bias, diode parameters, bulk resistance, knee voltage, static and dynamic resistance, PIV. Application of diode; As a rectifier, as logic gate, as a switch, etc. Rectifier, types, Half wave Full wave. Half wave rectifier: Circuit, working, wave forms and expression for ripple factor and efficiency (no derivation), advantages & disadvantages. Bridge wave rectifier: Circuit, working, wave forms and expressions for ripple factor and efficiently (no derivation), advantages & disadvantages. Logic families: Scale of integration, Digital IC’s, classifications, DTL, TTL, ECL, MOS, CMOS, Mention of features: speed of operation, power dissipation, propagation delay, fan-in, fan-out.

[12 Hours]

Unit – III

Number Systems: Introduction to number systems – positional and non-positional, Base /Radix. Decimal number system-Definition, digits, radix/base, Binary number system – Bit Byte, Conversions: Binary to Decimal and Decimal to Binary. Octal number system-Conversion from Octal to Decimal to Octal, Octal to Binary and binary to Octal. Hexadecimal number system –Conversion : Decimal to Hex, Hex to decimal, Hex to Binary, Binary to Hex, Octal to Hex, Hex to Octal, Binary, arithmetic –binary addition, subtraction, multiplication and division (only Integer part). 1's and 2's compliment: 2's complement subtraction. Binary code: BCD numbers, 8421 code, 2421 code- examples and applications. Gray code –Conversions-Gray to binary and Binary to Gray, application of gray code (Mention only). Excess-3 code – self complimenting property and applications. Definition and nature of ASCII code. Introduction to error detection and correction code, parity check. Boolean algebra:-Laws and theorems. AND, OR, NOT Laws, Commutative law, associative law, distributive law, Duality theorem. Demorgan's theorems-Statements, proof using truth tables; Simplification of Boolean expressions using Boolean laws. Definition of product term, sum term, minterm, maxterm, SOP, standard POS and Standard POS. Conversion of Boolean expression to Standard SOP and Standard POS forms. Karnaugh maps-Definition of Karnaugh map, K- map for 2, 3 and 4 variables. Conversion of truth tables into k-map grouping of cells, redundant groups and don't care conditions Karnaugh map technique to solve 3 variable and 4 variable expressions. Simplification of 3 and 4 variable Boolean expression using K-maps (SOP only)

[12 Hours]

Unit - IV

Logic Gates: AND Gate: Definition, symbol truth table, timing diagram, Pin diagram of IC 7408. OR Gate: Definition, symbol, truth table, timing diagram of IC 7432. NOT Gate: Definition symbol, truth table, timing diagram, Pin diagram of IC 7404. NAND Gate: Definition, symbol, truth table, Pin diagram of IC 7400, NOR Gate: Definition, symbol, truth table, timing diagram, Pin diagram of IC 7402. Exclusive OR Gate: Definition, symbol, truth table, timing diagram. Combinational logic circuits: Definition, applications. Half Adder: Symbol, Logic circuits using XOR and basic gates, Truth table, Full Adder: Symbol, Logic circuits using XOR and basic gates, Truth table, Half Subtractor: Symbol, Logic circuits using XOR and basic gates, Truth table. Full Subtractor: Symbol, Logic circuits using XOR and basic gates, Truth table. Adder – Subtractor; Logic circuit, Pin diagram IC 7483, IC 7486. Parallel Adder: 4 –bit parallel binary adder, BCD adder, IC 7483 NAND –NOR implementation of Adders.

[12 Hours]

Unit - V

Sequential Circuits: Importance of clock in digital circuit and introduction to flip flop. Flip –flop-difference between latch and flip-flop. Qualitative study of level and edge triggering. RS latch /unlocked, symbol and truth table. RS flip-flop using NAND gate, symbol, truth table and timing diagram. D flip –flop – Symbol, truth table, Realization of JK flip –flop using NAND gates, working, and timing diagram. Race around condition, present and clear inputs, pin diagram of IC 74112. T flip flop-Logic symbol, JK flip flop as a T flip –flop truth table and timing diagram. Master slave flip flop; Logic circuit, truth table and timing diagram, advantage of M/S flip-flop, pin diagram of IC 7473 IC 7476. Registers: Definition, types of registers-Serial in serial out, serial in parallel out, Parallel in serial out, Parallel in parallel our shift register (Block diagram representation for each), truth table, timing diagram and speed comparison.

[12 Hours]

Text Books:

- 1) Thomas L.Floyd ,’’Digital Fundamentals’’, Peason Education Inc, New Delhi, 2003

Reference Books:

- 1) Morris Mano, “Digital Design”, 5Th Edition, Prentice Hall, 2013
- 2) R.P.Jain, “Modern Digital Electronics”, 3rd Edition, Tata Mc Graw Hill, 2003.
- 3) Bignell and Donovan, “Digital Electronics”, 5th Edition, Thomson Publication, 2007.

BCA105T: DISCRETE MATHEMATICS

Total Teaching Hours: 65

No of Hours / Week: 05

Unit – I

Sets, Relations and Functions: Sets, Subsets, Equal Sets, Universal Sets, Finite and Infinite Sets, Operation on Sets, Union, Intersection and Complements of Sets, Cartesian Product, Cardinality of Set, De-mogan’s law, Simple Applications. Relations, Properties of Relations, Equivalence Relation, Function: Domain and Range, Onto, Into, One to One, one to many Functions, Composite and Inverse Functions. Mathematical Logic: Proposition and truth values, Logical Connectives and their truth tables, Converse, Inverse and Contrapositive, Tautology and Contradiction, Logical Equivalence – Standard Theorems, Switching Circuits.

[13 Hours]

Unit - II

Matrices: Review of fundamentals: Definition of matrix, order, Types of matrices: zero, row, column, square, diagonal, scalar, unit, symmetric, skew-symmetric. Determinant: Value of determinant of order 2x2, 3x3, minors, cofactors, adjoint, inverse of a matrix. Solutions of linear equations: Cramers rule and matrix method involving two and three variables. Eigen values and Eigenvectors: Characteristic equation, characteristic roots, characteristic vectors (without any theorems) only 2x2 order. Cayley Hamilton theorem. (Only statement), verification of Cayley Hamilton theorem (only 2x2 matrices), using the same finding the powers of A (A^4 , A^5 , A^{-1} , A^{-2}), Inverse of a Matrix using Cayley-Hamilton theorem.

[13 Hours]

Unit - III

Logarithms: Definition of Logarithm, Indices leading to Logarithms and vice versa, Laws of Logarithms with proofs, Problems, Common Logarithm: Characteristic and Mantissa, Use of Logarithmic Tables, Problems. Permutation and Combination: Fundamental Principle of Counting, Factorial n, Permutations: Definition, Examples, Derivation of Formula ${}^n P_r$, Permutation when all the objects are not distinct, Problems, Combinations: Definition, examples, Proving ${}^n C_r = \frac{{}^n P_r}{r!}$, ${}^n C_r = {}^n C_{n-r}$, ${}^n C_r + {}^n C_{r-1} = {}^{n+1} C_r$, Problems based on above formulae.

[13 Hours]

Unit - IV

Groups: Binary operation, Define of group, properties (only statement), problems (both finite and infinite groups), subgroup, theorems (no proof), problems. Vectors: Definition of vector and scalar, vector addition, dot and cross product, projection of a vector on the other (no geometrical meaning), area of parallelogram, area of a triangle, scalar triple product, volume of parallelepiped, co planarity of three vectors, vector triple product.

[13 Hours]

Unit - V

Analytical Geometry in Two Dimensions: Coordinates, Distance formula, Section Formula, Area of the Triangle formula (no derivation), Locus of point. Straight Line: Slope of a line and angle between two lines, Various forms of equations of lines – Derivation and Problems. Equation of family of lines passing through the point of intersection of two lines, Distance of a point from line (only problems).

[13 Hours]

Text Books

1. Grewal, B.S. Higher engineering Mathematics, 36th Edition

Reference Books

1. Satyrs S.S, Engineering Mathematics.
2. Peter V.O'Neil. Advanced Engineering Mathematics, 5th Edition.

BCA103P: C PROGRAMMING LAB

PART – A

- 1) Write a C Program to find the roots of the given quadratic equation using if-else if statement.
- 2) Write a menu driven C program using switch-case to find: (a) Sum of the digits of number (b) Factorial of N.
- 3) Write a C program to find $\cos(x)$ using series $\cos(x) = 1 - x^2/2! + x^4/4! - \dots x^n/n!$
- 4) Write a Program to find whether a given number is prime number or not
- 5) Write a C program to arrange the given set of numbers in ascending and descending order.
- 6) Write a C program to find product of two $N \times M$ matrices.
- 7) Write a C program to calculate $NCR = N! / R! * (N-R)!$ Using function.
- 8) Write a C program to display Fibonacci series using recursive function.
- 9) Write a C program to concatenate two strings using pointers.
- 10) Write a C program to copy content of one file to another file.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA104P: DIGITAL ELECTRONICS LAB

1. Study of Logic Gates–AND, OR, NOT, NAND, NOR XOR
(Using respective ICs)
2. Realization of AND, OR and NOT gates using Universal Gates.

3. Design and Realization of Half Adder/Subtracted using NAND Gates.
4. Design and Realization of Full Adder using Logic Gates.
5. Design and Realization of 4 bit Adder/Subtractor using IC 7483.
6. Design and Realization of BCD Adder using IC 7483.
7. Realization of J-K flip flop using IC 7400 and 7410.
8. Realization of T and D flip flop using IC 7476.
9. Implementation of PIPO Shift Registers using flip flops. (IC 7476).
10. Design and implementation of odd and even parity checker Generator using IC 74180.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

SECOND SEMESTER BCA

BCA201T: INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA202T: ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA203T: DATA STRUCTURES

Total Teaching Hours : 60

No of Hours / Week : 04

Unit-I

Introduction and Overview: Definition, Elementary data organization, Data Structures, data structures operations, Abstract data types, algorithms complexity, time-space tradeoff. Preliminaries: Mathematical notations and functions, Algorithmic notations, control structures, Complexity of algorithms, asymptotic notations for complexity of algorithms. String Processing: Definition, Storing Stings, String as ADT, String operations, word/text processing, Pattern Matching algorithms.

[12 Hours]

Unit-II

Arrays: Definition, Linear arrays, arrays as ADT, Representation of Linear Arrays in Memory, Traversing Linear arrays, Inserting and deleting, Sorting: Bubble sort, Insertion sort, Selection sort, Searching: Linear Search, Binary search, Multidimensional arrays,

Matrices and Sparse matrices.

[12 Hours]

Unit-III

Linked list: Definition, Representation of Singly linked list in memory, Traversing a Singly linked list, Searching a Singly linked list, Memory allocation, Garbage collection, Insertion into a singly linked list, Deletion from a singly linked list; Doubly linked list, Header linked list, Circular linked list.

[12 Hours]

Unit-IV

Stacks – Definition, Array representation of stacks, Linked representation of stacks, Stack as ADT, Arithmetic Expressions: Polish Notation, Application of Stacks, Recursion, Towers of Hanoi, Implementation of recursive procedures by stack. Queues – Definition, Array representation of queue, Linked list representation of queues Types of queue: Simple queue, Circular queue, Double ended queue, Priority queue, Operations on Queues, Applications of queues.

[12 Hours]

Unit-V

Graphs: Graph theory terminology, Sequential representation of Graphs: Adjacency matrix, traversing a Graph. Tree – Definitions, Binary trees, Representing binary trees in memory, Traversing Binary Trees, Binary Search Trees, Searching, Inserting and Deleting in a Binary Search Tree.

[12 Hours]

TEXT BOOKS

1. Seymour Lipschutz, “Data Structures with C”, Schaum’s outLines, Tata McGraw-Hill, 2011.

REFERENCES BOOKS

1. Mark Allen Weiss, “Data Structures and Algorithm Analysis in C”, Second Edition, Pearson Education, 2013.
2. Robert Kruse, C.L.Tondo, Bruce Leung, Shashi Mogalla, “Data Structures and Program Design using C”, Pearson Education, 2009.
3. Forouzan, “A Structured Programming Approach using C”, 2nd Edition, Cengage Learning India, 2008.

BCA204T : DATA BASE MANAGEMENT SYSTEMS

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction: Database and Database Users, Characteristics of the Database Approach, Different people behind DBMS, Implications of Database Approach, Advantages of using DBMS, When not to use a DBMS. Database System Concepts and architecture: Data Models, Schemas, and Instances. DBMS Architecture and Data Independence., Database languages and interfaces. The database system Environment, Classification of DBMS.

[12 Hours]

Unit - II

Data Modelling Using the Entity-Relationship Model: High level conceptual Data Models for Database Design with and example., Entity types, Entity sets, attributes, and Keys, ER Model Concepts, Notation for ER Diagrams, Proper naming of Schema Constructs, Relationship types of degree higher than two. Record Storage and Primary File Organization: Secondary Storage Devices. Buffering of Blocks. Placing file Records on Disk. Operations on Files, File of unordered Records (Heap files), Files of Ordered

Records (Sorted files), Hashing Techniques, and Other Primary file Organization.

[12 Hours]

Unit - III

Functional Dependencies and Normalization for Relational Database: Informal Design Guidelines for Relational schemas, Functional Dependencies, Normal Forms Based on Primary Keys., General Definitions of Second and Third Normal Forms Based on Primary Keys., General Definitions of Second and Third Normal Forms, Boyce-Codd Normal Form. Relational Data Model and Relational Algebra: Relational Model Concepts., relational Model Constraints and relational Database Schema, defining Relations, Update Operations on Relations., Basic Relational Algebra Operations, Additional Relational Operations., Examples of queries in the Relational Algebra., Relational Database design Using ER-to-Relational Mapping.

[12 Hours]

Unit – IV

Relational Database Language: Data definition in SQL, Queries in SQL, Insert, Delete and Update Statements in SQL, Views in SQL, Specifying General Constraints as Assertions, specifying indexes, Embedded SQL. PL /SQL: Introduction.

[12 Hours]

Unit - V

Transaction Processing Concepts: Introduction, Transaction and System Concepts, Desirable properties of transaction, Schedules and Recoverability, Serializability of Schedules, Transaction Support in SQL, Locking Techniques for Concurrency Control, Concurrency Control based on time stamp ordering.

[12 Hours]

Text book:

1. Ramez Elmasri and Shamkant B. Navathe, “Fundamentals of Database Systems”, 5th Edition, Pearson Education, 2007.

References:

1. Abrahamsi. Silberschatz, Henry. F. Korth, S. Sudarshan, “Database System Concepts” 6th Edition, McGraw Hill, 2012.
2. C.J.Date, “Introduction to database systems”, Eight Edition, Addison Wesley, 2003.

BCA205: NUMERICAL AND STATISCAL METHODS

Total Teaching Hours: 65

No of Hours / Week : 05

Unit - I

Floating-point representation and errors-Normalized floating-point forms, Errors in representing numbers, Floating point machine number and machine epsilon, Loss of significance and its avoidance. Roots of equations-locating roots of $f(x)=0$ Bisection method, Newton’s method, Secant method.

[13 Hours]

Unit - II

Interpolation and numerical differentiation-polynomial interpolation, Lagrange and Newton form of interpolating Polynomial, Divided difference and recursive property, Inverse interpolation, First and Second derivative formulae via interpolation Polynomials. Numerical integration-Trapezoidal, Simpson’s and adaptive Simpson rules.

[13 Hours]

Unit - III

System of linear equations-Gaussian elimination and back substitution-partial and complete pivoting, Doolittle, Cholesky and Crout LU decomposition methods, Jacobi and

Gauss – Seidel iterative methods. Power (and inverse power) method of obtaining largest (smallest) eigenvalue and corresponding eigenvector. Ordinary differential equations-initial value problem, Picard's, Taylor series, Runge-Kutta first, second and fourth order methods.

[13 Hours]

Unit – IV

Basics concepts and definition of statistics. Mean, Standard deviation, coefficient of Variation, skewness & kurtosis, Carl Pearson Correlation, Rank correlation and illustrated examples. Probability: Basic concept and definition of probability, probability axioms, Laws of Probability, Conditional probability, Bayes theorem , Problems and application.

[13 Hours]

Unit - V

Random variable and Expectation: Discrete and continuous random variables, expectation of random variables, theorems on expectation, illustrative examples. Probability Distribution: Probability function, Probability mass/density function, Discrete Distribution – Bernoulli, Binomial Distribution, Continuous distribution – Normal Distribution, applications and problems.

[13 Hours]

Text Books:

1. M.K.Jain, SRK Iyengar and R.K. Jain Numerical methods for Scientific and Engineering Computation: Wiley Eastern.
2. Ronald E Walpole & Raymond H Meyers : Probability & Statistics for Engineers and Scientists (Second Edition).

References

1. J.Medhi : Statistical Methods New Age Publications.
2. S.C.Gupta and V.K.Kapoor – Elements of Mathematics, Statistics, Sultan Chand and Sons.

BCA203P : DATA STRUCTURES USING C LAB

PART - A

1. Write a menu driven C program to perform the following string operations without using string functions: (i) String Length (ii) String Concatenation (ii) String Reverse
2. Write a C program to search for an element in an array using Binary search
3. Write a C program to sort a list of N elements using Selection Sort Algorithm.
4. Write a C program to construct a singly linked list and perform insertion, deletion and Display operations.
5. Write a C program to demonstrate the working of stack using linked list.
6. Write a C program for Towers of Hanoi problem.
7. Write a C program to find GCD of two numbers using recursion
8. Write a C program to convert infix arithmetic expression to post fix expression.
9. Write a C program to simulate the working of Circular Queue using an array.
10. Write a C program to create and traverse a binary search tree.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA304P: DATABASE MANAGEMENT SYSTEM LAB
PART - A

1. The STUDENT detail databases has a table with the following attributes. The primary keys are underlined. STUDENT(regno: int, name: string, dob: date, marks: int)

- i) Create the above table.
- ii) Remove the existing attributes from the table.
- iii) Change the date type of regno from integer to string.
- iv) Add a new attribute phoneno to the existing table.
- v) Enter five tuples into the table.
- vi) Display all the tuples in student table.

2. A LIBRARY database has a table with the following attributes.

LIBRARY(bookid:int, title:string, author:string, publication:string, yearpub:int, price:real)

- i) Create the above table.
- ii) Enter the five tuples into the table
- iii) Display all the tuples in student table.
- iv) Display the different publishers from the list.
- v) Arrange the tuples in the alphabetical order of the book titles.
- vi) List the details of all the books whose price ranges between Rs. 100 and Rs. 300

3. The SALARY database of an organization has a table with the following attributes.

EMPSALARY(empcod:int, empnamee:string, dob:date, department:string, salary:real)

- i) Create the above table.
- ii) Enter the five tuples into the table
- iii) Display all the number of employees working in each dapartment.
- iv) Find the sum of the salaries of all employees.
- v) Find the sum and average of the salaries of employees of a particular department.
- vi) Find the least and highest salaries that an employee draws.

4. Consider the insurance database given below. The primary keys are underlined and the data types are specified.

PERSON(driver-id-no: string, name: string, address: string)

CAR(regno: string, model: string, year: int)

ACCIDENT(report-no: int, date: date, location: String)

OWNS(driver-id-no: string, regno: string)

PARTICIPATED(driver-id-no: string, regno: string, report-no: int, damage-amount: int)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) Demonstrate how you
 - a) Update the damage amount for the car with a specific regno in the accident with report no 12 to 25000.
 - b) Add a new accident to the database.
- iv) Find total number of people who owned cars that were involved in accidents in 2002
- v) Find the number of accidents in which cars belonging to a specific model were involved

5. Consider the following database of students enrollment in courses and books adopted for each course.

STUDENT(regno: string, name: string, major: string, bdate: date)

COURSE(course-no: int, cname: string, dept: string)

ENROLL(reg-no: string, course-no: int, sem: int, marks: int)

BOOK-ADOPTION(course-no: int, sem: int, book-isbn: int)

TEXT(book-isbn: int, book-title: string, publisher: string, author: string)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) Demonstrate how you add a new text book to the database and make this book be adopted by some department.
- iv) Produce a list of text books (include Course-no, book-isbn, book-title) in the alphabetical order for courses offered by the 'Compute Science' department that use more than two books.
- v) List any department that has all its adopted books published by a specific publisher.

6. The following tables are maintained by a book dealer

AUTHOR(author-id: int, name: string, city: string, country: string)

PUBLISHER(publisher-id: int, name: string, city: string, country: string)

CATALOG(book-id: int, title : string, author-id: int, publisher-id: int, category: int, year: int, price: int)

CATEGORY(category-id: int, description: string)

ORDER-DETAILS(order-no: int, book-id: int, quantity: int)

- i) Create above tables by properly specifying the primary keys and the foreign keys.
- ii) Enter atleast five tuples for each relation.
- iii) Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2010.
- iv) Find the author of the book which has maximum sales.
- v) Demonstrate how to increase price of books published by specific publisher by 10%

7. Consider the following database for BANK.

BRANCH(branch-name: string, branch-city: string, assets: real)

ACCOUNT(accno: int, banch-name: string, balance: real)

DEPOSITOR(customer-name: string, accno: int)

CUSTOMER(customer-name: string, customer-street: string, customer-city: string)

LOAN(loan-no: int, branch-name: string, amount: real)

ORROWER(customer-name: string, loan-no: int)

- i) Create the above tables by properly specifying the primary keys and foreign keys.
- ii) Enter atleast five tuples for each relation.
- iii) Find all the customers who have atleast two accounts at the main branch.
- iv) Find all customer who have an account at all the branches located in a specific city.
- v) Demonstrate how to delete all account tuples at every branch located in specific city.

8. Consider the following database for ORDER PROCEEESING.

CUSTOMER(cust-no: int, cname: string, city: string)

ORDER(orderno: int, odate: date, ord-amt: real)

ORDER_ITEM(orderno: int, itemno:int, qty: int)

ITEM(itemno: int, unitprice: real)

SHIPMENT(orderno: int, warehouseno: int, ship-date: date)

WAREHOUSE(warehouseno: int, city: string)

- i) Create the above tables by properly specifying the primary keys and the foreign keys
- ii) Enter atleast five tuples for each relation.
- iii) List the order number and ship date for all orders shipped from particular warehouse.

- iv) Produce a listing: customer name, no of orders, average order amount
- v) List the orders that were not shipped within 30 days of ordering

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note :

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 8 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

THIRD SEMESTER BCA

BCA301T: INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA302T: ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA303T: OBJECT ORIENTED PROGRAMMING USING C++

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction :Procedure Languages, definition of OOP, Basic concept of OOP, Object Class, Data Abstraction, Data Encapsulation, Data Hiding member functions , Reusability, Inheritance, Creating new Data Types, Polymorphism, Overloading , Dynamic binding and Message passing. C++ Features: The iostream class, C++ Comments, C++ Keywords, Variable declaration, The Const Qualifier. The Endl, Set Waste precision, Manipulators, The scope resolution operator, The new & delete Operations. Functions: Simple Functions, Function declaration, calling the function, function definition, Passing argument to, returning value from function, passing constants, Variables, pass by value , passing structure variables, pass by reference, Default arguments, return statements, return by reference, overloaded functions; Different number of arguments, Different Kinds of argument, inline function.

[12 Hours]

Unit - II

Objects & Classes: Classes & Objects, Class Declaration, Class member; Data Constructions, Destructors, Member functions, Class member visibility, private, public, protected . The scope of the class objects constructions, Default Constructor. Constructor with argument, constructor with default arguments, Dynamic constructor, copy constructor, Overloaded constructor, Objects as arguments returning objects from

functions, class conversion, manipulation private Data members, Destructors classes, object & memory, arrays as class member data: Array of objects, string as class member.
[12 hours]

Unit - III

Operator Overloading : Overloading unary operator: Operator Keyword, Operator arguments, Operator return value, Nameless temporary objects, limitations of increment operator, overloading binary operator, arithmetic operators, comparison operator, arithmetic assignment operator, data conversion; conversion between objects of different classes. Inheritance : Derived Class & Base Class: Specifying the Derived class accessing Base class members, the protected access specifier, Derived class constructor, Overriding member functions, public and private inheritance; Access Combinations, Classes & Structures, Access Specifiers, Level of inheritance; Multilevel inheritance, Hybrid inheritance, Multiple inheritance; member functions in multiple inheritance , constructors in multiple inheritance, Containership; Classes, within classes, Inheritance & Program development.

[12 Hours]

Unit - IV

Virtual functions: Normal member function accessed with pointers, Virtual member functions accessed with pointers, Dynamic binding, pure virtual functions, Friend function; Friends for functional notation, friend classes, the pointer; Accessing Member Data with this, using this for returning values. Templates & Exception Handling: Introduction, Templates, Class Templates, function templates, Member function templates, Template arguments, Exception Handling.

[12 Hours]

Unit V

Streams: The Stream class Hierarchy, Stream classes Header file, string I/O: Writing strings, reading strings, character I/O, Detecting End – of – file. Object I/O; writing an object to disk, reading an object from disk, I/O with multiple objects; the fstream class, The open function, File Pointers; Specifying the position, Specifying the offset. The tellg Function, Disk I/O with Memory Functions; Closing Files, Error Handling, Command Line Arguments.

[12 Hours]

Text books:

1. Lafore Robert, “Object Oriented Programming in Turbo C++”, Galgotia Publications, 2012.

Reference:

1. Lippman, “C++ Primer”, 3rd Edition, Pearson Education, 2010.
2. E. Balaguruswamy: Object Oriented Programming with C++, Tata McGraw Hill Publications, 2011.
3. Farrell, “Object Oriented Programming Using C++”, 1st Edition 2008, Cengage Learning India

BCA304T: ACCOUNTING AND FINANCIAL MANAGEMENT

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction: History and Development of Accounting –Meaning Objectives and functions of Accounting-Book-keeping V/s Accounting –Users of accounting data – systems of book-keeping and accounting – branches of accounting –advantages and limitations of accounting. Accounting Concepts and conventions: Meaning need and classification, Accounting standards –meaning, need and classification of Indian

accounting standards. Accounting principles V/s Accounting standards.

[12 Hours]

Unit - II

Financial Accounting Process: Classification of accounting transaction and accounts, rules of debit and credit as per Double Entry System. Journalisation and Ledger position Preparation of different subsidiary books: Purchase Day Book Sales Day Book, Purchase Returns Day Books, Sales Returns Day Book, Cash Book. Bank Reconciliation Statement: Meaning, Need, Definition, preparation of BRS.

[12 Hours]

Unit - III

Accounting for bill of exchange: Meaning, Need, Definition, Partice to Bill of Exchange, Types of Bills. Accounts Procedure: Honour of the Bill, Dishonour of the Bill, Endorsement, Discounting, Renewal, Bills for collection, Retirement of the Bill, Accommodation Bills, Bill Receivable Book and Payable Book. Preparation of Trial Balance: Rectification of errors and journal Proper.

[12 Hours]

Unit - IV

Preparation of Final accounts: Meaning, need and classification, Preparation of Manufacturing, Trading, Profit and loss account and Balance-Sheet of sale –traders and partnership firms.

[12 Hours]

Unit V

Accounting Package like Tally

[12 Hours]

Text Book

1. S.Ramesh, B.S.Chandrashekar, a Text Book of Accountancy.

References

1. V.A.Patil and J.S.Korihalli, Book–Keeping and Accounting, (R. Chand and Co. Delhi).
2. R.S.Singhal, Principles of Accountancy, Nageen Prakash pvt.Ltd, Meerut.
3. B.S.Raman, Accountancy, (United Publishers, Mangalore)

BCA305T: OPERATING SYSTEMS

Total Teaching Hours : 65

No of Hours / Week : 05

Unit - I

Introduction: Batch Systems, Concepts of Multiprogramming and Time Sharing, Parallel, Distributed and real time Systems, Operating System Structures, Components & Services, System calls, System programs, Virtual machines. Process Management: Process Concept, Process Scheduling, Co – Operating process, Threads, Inter process communication, CPU Scheduling Criteria, Scheduling algorithm, Multiple Processor Scheduling, Real time Scheduling, Algorithm evolution.

[13 Hours]

Unit - II

Process Synchronization and deadlocks: The Critical Section Problem, Synchronization hardware, Semaphores, Classical problems of synchronization, Critical regions, monitors, Dead locks – system model, Characterization, Dead lock prevention, avoidance and detection, Recovery from dead lock, Combined approach to deadlock handling.

[13 Hours]

Unit - III

Memory Management: Logical and Physical address space, Swapping, Contiguous allocation, Paging, Segmentation, Segmentation with paging in Mastics and Intel 386, Virtual memory-Demand paging and it's performance, Page replacement algorithms, Allocation of frames, thrashing, page size and other considerations. Demand Segmentation.

[13 Hours]

Unit - IV

File management (Systems, Secondary Storage Structure): File Concepts, Access methods, Directory Structure, Protection and consistency, File system structure, Allocation methods, Free space management, Directory Implementation, Efficiency and Performance, Recovery. Disk Management (Structure, Disk Scheduling Methods): Disk Structure & Scheduling methods, Disk management, Swap – Space management.

[13 Hours]

Unit - V

Protection and Security: Goals of protection, Domain Protection, Access matrix, Security Problem, Authentication, One time password, program threats, System threads.

Case Study of Windows and Linux Operating System

[13 Hours]

Text Books:

1. Abraham Silberschatz and Peter Baer Galvin, “Operating System Concepts”, 7th Edition, Pearson Education, 2002.

Reference Books:

1. H.M.Deitel, “Operating Systems”, Pearson Learning Solutions, 3rd Edition, 2003.
2. William Stallings, “Operating Systems”, 6th Edition, Pearson Education, 2010.
3. Stuart, “Operating systems: Principles, Design and Implementation”, 1st Edition 2008, Cengage Learning India

BCA303P : C++ PROGRAMMING LAB

PART-A

1. Write a program to prepare a shopping lists
2. Write a program to perform bank transactions.
3. Write a program to swap numbers using friend function.
4. Write a program to calculate area and circumference of circle using inline function
5. Write a program to perform multiplication of two matrices using operator overloading.
6. Write a program to implement operation on queue.
7. Write a program to create a student report using inheritance technique.
8. Write a Program to find the area and volume of respective figures using function overloading.
9. Write a program to show returning current object, accessing member data of current object and returning values of object using this pointer
10. Write a program to sort elements using template.

PART - B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 8 Programs has to be prepared).

Note :

- a) The candidate has to write two the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:
- | | |
|--------------------------|-------------------|
| Writing two programs | - 10 Marks |
| Execution of one program | - 10 Marks |
| Formatting the Output | - 05 Marks |
| Viva | - 05 Marks |
| Record | - 05 Marks |
| Total | - 35 Marks |

BCA304P: ACCOUNTING PACKAGE LAB

FOURTH SEMESTER BCA

BCA401T: INDIAN LANGUAGE

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA402T: ENGLISH

Syllabus as per the one prescribed for science courses of Bangalore University.

BCA403T: VISUAL PROGRAMMING

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Visual Programming: The intergrated Development Environment – menu bar, tool bar, form designer, project explorer , properties window , form layout window , The Visual Programming editor. The form object: Properties , events and methods pf forms ; Properties – Name , Caption , Backcolor, Borderstyle , controlbox , maxbutton , minbutton, moveable, startup position , height, width , left, top, scalemode, window, state ; Events –load ,unload , Clerk, Activate , Deactivate , Resize, methods – Show , hide , cls , Unload ,print , Controls –Properties and events of different controls such as command buttons , labels , textboxes image controls , timer, horizontal and vertical scroll bars , option buttons , check boxes , frames lists and combo boxes. Predefined Dialog Boxes – MsgBox and InputBO

[12 Hours]

Unit - II

Programming: Data types, variables; declaration and scope arithmetic operations, Study of form and code modules, private and public procedures , Main o procedure , Suba and Functions. Mathematical and string Functions; Branching and Looping Statement ; If – Then , if –Then –Else and Nested If Statements; Select Case –different forms; For – Next , While – Wend and Do – Loops statements ; Arrays- declaration . Static and dynamic arrays. Array and Function, menus and toolbars-Creating menus and toolbars, Working with the menu editor , Designing Multiple Document interface forms. Microsoft common controls.

[12 Hours]

Unit - III

OOP methods and properties of an object, class Modules , Encapsulation and Inheritance characteristics Dynamic Link Libraries (DLLs) and Windows API ; Designing Help files ; File handling – Sequential ,Random access and Binary files, Database connectivity – DAO and ADO Tables and Queries, ActiveX Data objects.

[12 Hours]

Unit – IV

Visual C++ Programming: Objects-Classes-VC++Components – Resources-Event Handling – Menus – Dialog Boxes – Importing VBX Controls – Files – MFC File Handling – Document View Architecture – Serialization.

[12 Hours]

Unit – V

Interfacing Other Applications – Multiple Document Interface (MDI) – Splitter Windows – Exception Handling – Debugging – Object Linking and Embedding (OLE) – Database Application – DLL- ODBC.

[12 Hours]

Text Books:

1. Gurumit Singh, “Visual Basic 6”, First Edition, Firewall Media, 2007.

Reference Books:

1. Charles Petzold, “Windows Programming”, 5th Edition, Microsoft Press, 1999.
2. Steve Holzner, “Visual C++ Programming”, Second Edition, PHI, 1994.
3. Go ttfried, “Programming with Visual Basic 6”, PHI, 2000.

BCA404T : UNIX PROGRAMMING

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction: History, salient features, Unix system architecture, Unix command format, Unix internal and external commands, Directory commands, File related commands, Disk related commands, general utilities. Unix File System: Boot inode, super and data block, in-core structure, Directories, conversion of pathname to inode, inode to a new file, Disk block allocation. Process Management: Process state and data structures of a Process, User vs, kernel node, context of a Process, background processes, Process scheduling commands, Process terminating and examining commands.

[12 Hours]

Unit - II

Secondary Storage Management: Formatting, making file system, checking disk space, mountable file system, disk partitioning, file compression. Special Tools and Utilities: Filters, Stream editor SED and AWK, Unix system calls and library functions, Processes, signals and Interrupts, storage and compression facilities.

[12 Hours]

Unix - III

Shell Programming: Vi editor, shell types, shell command line processing, shell script features, executing a shell script, system and user-defined variables, expr command, shell screen interface, read and echo statement, command substitution, escape sequence characters, shell script arguments, positional parameters, test command, file test, string test, numeric test.

[12 Hours]

Unit – IV

Conditional Control Structures-if statement, case statement Looping Control Structure-while, until, for, statements. Jumping Control Structures – break, continue, exit. Shell Programs covering the above concepts.

[12 Hours]

Unit – V

Unix System Communication: Introduction, write, read, wall commands, sending and handling mails. System Administration: Roles of a System Administrator, File System Maintenance, System Startup and Shutdown, User Management, Backup and Restore, Doemons, Domain Name System DNS, Distributed File System.

[12 Hours]

Text Books:

1. M.G.Venkateshmurthy, “Introduction to UNIX & SHELL Programming”, First Edition, Pearson Education, 2004.

Reference Books:

1. Forouzan, “Unix and Shell Programming”, 1st Edition, 2008 Cengage Learning India
2. UNIX and Shell Programming, Archana Verma, Firewall Media.

BCA405T: OPERATIONS RESEARCH

Total Teaching Hours : 65

No of Hours / Week : 05

Unit - I

Linear Programming Problems: Origin and development of operations research, Linear Programming Problem –formulation of Linear Programming problem, Graphical solution. Theory of simplex method. Use of artificial variables and their solution.

[13 Hours]

Unit - II

Transportation Problem: Mathematical formulation of transportation problem, Initial basic Feasible solution, North West corner rule, Matrix minima method, Vogel’s approximation method, MODI method to find optimal solution.

[13 Hours]

Unit - III

Assignment Problem: Mathematical formulation of an Assignment problem, Assignment algorithm, Hungarian Method to solve Assignment Problem.

[13 Hours]

Unit - IV

Network Analysis: Basic components of Network, Rules for drawing Network diagram Time calculation in Networks. Critical Path Method and PROJECT Evaluation and Review Techniques. Algorithm and flow chart for CPM and PERT.

[13 Hours]

Unit - V

Theory of Games: Two –person Zero –sum Games, the maximin and Minimax principle, Saddle point and value of the Game. Game without saddle points, mixed strategies, solution for 2X2 games, Graphical method Dominance property.

[13 Hours]

Text books:

1. Taha, “Operations Research”, 7th edition, Pearson Education, 2007.

References Book:

1. Billey E. Gillett, “Introduction to Operations Research” , Himalaya Publishing House, Delhi, 1979.
2. Hamady A.Taha “Operations Research” , Collin Mac Millan, 1982.

FIFTH SEMESTER BCA

BCA501T: DATA COMMUNICATIONS AND NETWORKS

Total Teaching Hours : 60

No of Hours / Week : 04

Unit – I

Introduction: Communication Network and services, Approaches to Network Design, Network Functions and Network Topology, Message ,packet and circuit Switching , Internet, Packet Switching ; Key factors in Communication Network Evolution ; Layered Architecture and Applications – Examples of Layering , OSI Reference Model, TCP/IP Model Telnet FTP and IP Utilities. Digital Transmission: Digital Representation of Information: Properties of digital transmission: Characterization of Communication Channels Frequency Domain and Time Domain : Fundamental limits in Digital Communication – The Nyquist Signalling rate, The Shannon channel capacity : Line coding , Modems & digital Modulations

[12 Hours]

Unit - II

Transmission Systems: properties of media and digital transmission Systems – Twisted Pair , Coaxial Cable, Optical Fibre, Radio Transmission Infrared Light Error detection and correction – Error detection , Two – dimensional parity checks , Internet checksum , Polynomial code; standardized Polynomial codes , Error detecting capability of a polynomial code, Multiplexing – frequency – Division , Time – Division , SONET; Wavelength Division Multiplexing Circuit switches; Telephone network , signalling Traffic and Overload control in Telephone networks – Concentration, Routing Control, Overload controls Cellular Telephone Networks, Satellite Cellular networks.

[12 Hours]

Unit – III

Peer –to–Peer Protocols:- Peer-to peer Protocols and service models ARQ Protocols stop and wait , Go –back-N Selective Repeat , Transmission efficiency of ARQ Protocols, Other adaptation functions , - Sliding window flow control Timing Recovery in Synchronous Services Reliable Stream Service, Data Link Control, HDLC, PPP ; Statistical Multiplexing.

[12 Hours]

Unit - IV

Local Area Networks and Medium access Control Protocols:- Multiple access communications; Local Area network – LAN Structure, MAC Sublayer, Logical link control layer, Random Access protocols ALOHA , Slotted ALOHA, CSMA, CSMA/CD, Scheduling approaches to medium access control – Reservation Systems, polling , Token passing rings, comparison of Random access & Scheduling access control Comparison of Radom access & SHEDULING MEDIUM access controls; Channelization – FDMA, TDMA, CDMA;

[12 Hours]

Unit - V

LAN Standard –Ethernet and IEF, 802.3 LAN Standard ; Token Ring and IEEE 8025 LAN standard , FDDI, Wireless LAN's and IEEE 802.11 Standards; LAN Bridges – Transparent Bridges , Source Routing Bridges , Mixed – media Bridges. Packet Switching Networks :- Network services & Internal Network Operation; Packet Network Topology; Datagrams & VIRTUAL circuits ; structure of switch/ Router, Connectionless packet switching ; Virtual – Circuit packet switching ; Overview of Routing and congestion in packet networks – Routing algorithms classification , Routing tables,

shortest path routing algorithms, Flooding , Hierarchical routing , Distance vector routing
Link state routing , congestion control algorithms. [12 Hours]

Text Books:

1. Stallings, “Data and Computer Communications”, 7th Edition, Pearson Education, 2012

Reference Books:

1. Andrew S Tanenbaim, “Computer Networks”, 4th Edition, Pearson Education.
2. Behrouz Ferouzan, Introduction to Data Communication & Networking TMH, 1999.
3. Larry & Peterson & Bruce S Davis; Computer networks Second Edition , Morgan Kaufman, 2000.

BCA502T : SOFTWARE ENGINEERING

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction: Software Products and Software process, Process models: Waterfall modal, Evolutionary Development, Bohemia’s Spiral model, Overview of risk management, Process Visibility, Professional responsibility. Computer based System Engineering: Systems and their environment, System Procurement, System Engineering Process, System architecture modelling. Human Factors, System reliability Engineering. Requirements and Specification: The requirement Engineering Process, The Software requirement document, Validation of Evolution of requirements, Viewpoint – oriented & method based analysis , system contexts , Social 7 organizational factors . Data flow , Semantic, Objects, models , Requirement Specification, Non functional requirement.

[12 Hours]

Unit - II

Software Prototyping: Prototyping in software process, Prototyping techniques, User interface prototyping. Software Design: Design Process, Design Strategies, Design Quality , System Structuring control models, Modular decomposition , Domain Specific architecture.

[12 Hours]

Unit - III

Object Oriented& function oriented design: Objects, object Classes and inheritance Object identification, An object oriented design example, Concurrent Objects, Data flow design Structural decomposition, Detailed Design, A Comparison of design Strategies. User interface design: Design Principles, User System interaction, Information Presentation, User Guidance, Interface Evaluation.

[12 Hours]

Unit - IV

Software Reliability and reusability : Software reliability metrics , Software reliability Specification , Statistical testing ,Reliability Growth modeling, Fault avoidance & tolerance, Exception handling & defensive programming , Software development with reuse, Software’ development for reuse , Generator based reuse, Application System Portability.

[12 Hours]

Unit - V

Software Verification and Validation : The testing Process , Test Planning & Strategies, Black Box , Structural, interface testing , Program inspections , Mathematically based verification, Static analysis tools, Clean room software development. Management Issues: Project management, Quality management, Software cost estimation, Software maintenance.

[12 Hours]

Text book

1. Ian Sommerville – Software Engineering, 9th Edition, Pearson Education Ltd, 2010.

Reference Books

1. Roger S. Pressman – Software Engineering, A Practitioner’s approach, 7th Edition, McGRAW-HILL Publication, 2010.
2. Pankaj Jalote, “An integrated approach to Software Engineering”, 3rd Edition, Narosa Publishing House, 2013.

BCA503T: COMPUTER ARCHITECTURE

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

DIGITAL LOGIC CIRCUITS: Logic gates Boolean algebra, map simplification, combinational circuits, flip-flop, sequential circuits. **INTEGRATED CIRCUITS AND DIGITAL FUNCTIONS:** Digital integrated circuits, IC flip –flops and registers, decoders and multiplexers, binary counters, shift registers, random –access memories (RAM) read –only memories (ROM).

[12 Hours]

Unit - II

DATA REPRESENTATION: Data types, fixed-point representation, floating – point representation, other binary codes, error detection codes.

DATA TRANSFER OPERATIONS: Register Transfer, Memory Transfer and I/O Transfer.

[12 Hours]

Unit – III

BASIC COMPUTER ORGANISATION AND DESIGN: Instruction codes, computer instruction, timing and control, execution and instruction, input-output and interrupt, design of computer.

[12 Hours]

Unit - IV

CENTRAL PROCESSOR ORGANIZATION : Processor bus organization, arithmetic logic unit (ALU) instruction formats, addressing modes, data transfer and manipulation , program control, microprocessor organization.

[12 Hours]

Unit – V

INPUT-OUTPUT ORGANISATION: Peripheral devices . asynchronous data transfer , direct memory access (DMA) ,priority interrupt, input –output processor (IOP).

MEMORY ORGANIZATION : Auxiliary memory, microcomputer memory hierarchy , associative memory , virtual memory, cache memory.

[12 Hours]

Text Books

1. M.Moris Mano , Computer System, Architecture, 2nd Edition Prentice Hall of India.

References

1. Heuring and Jordan, Computer systems design and Architecture , Peason Edition
2. William Stallings , Computer Organisation and Archotecture, Peason Education
3. Floyed , Digital Fundamentals,8th Edition , Peason Education.
4. Andrew S. Temenbauam, Structured Computer Organization , 3rd Edition ; Prentice Hall of India.
5. David Patterson & Hennessy , Computer Organization & Design , Elsevier.

BCA504T: OBJECT ORIENTED PROGRAMMING USING JAVA

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to JAVA: JAVA Evolution: Java History, Java Features, How Java Differs from C and C++, Java and Internet, Java and World Wide Web, Web Browsers, Hardware and Software Requirements, Java Support Systems, Java Environment. Overview of JAVA Language: Introduction, Simple Java program, More of Java Statements, Implementing a Java Program, Java Virtual Machine, Command Line Arguments, Programming Style. Constants, Variables, and Data Types: Introduction, Constants, Variables, Data Types, Declaration of Variables, Giving Values to Variables, Scope of Variables, Symbolic Constants, Type Casting, Getting Values of Variables, Standard Default Values, Operators and Expressions: Introduction, Arithmetic Operators, Relational Operators Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bitwise Operators, Special Operators, Arithmetic Expressions, Evaluation of Expressions, Precedence of Arithmetic Operators, Type Conversion and Associativity, Mathematical Functions. Decision Making and Branching: Introduction, Decision Making with if Statement, Simple if Statement, The if.....else Statement, Nesting of if.....Else Statements, The else if Ladder, The Switch Statement, The ?: Operator. Decision Making and Looping: Introduction. The while Statement, The do Statement, The for Statement, Jumps in Loops Labeled Loops.

[12 hours]

Unit -II

Classes, Arrays, Strings and Vectors: Classes, Objects and Methods: Introduction, Defining a Class, Adding Variables, Adding Methods, Creating Objects, Accessing Class Members, Constructors, Methods Overloading, Static Members, Nesting of Methods, Inheritance: Extending a Class Overriding Methods, Final Variables and Methods, Finalizer methods, Abstract Methods and Classes, Visibility Control. Arrays, Strings and Vectors: Arrays, One-dimensional Arrays, Creating an Array, Two -Dimensional Arrays, Creating an Array, Two – dimensional Arrays, Strings, Vectors, Wrapper Classes.

[12 Hours]

Unit - III

Interfaces, Packages, and Multithreaded Programming: Interfaces: Multiple Inheritance: Introduction, Defining Interfaces, Extending Interfaces, Implementing Interfaces, Accessing Interface Variables. Packages: Putting Classes together: Introduction, Java API Packages, Using System Packages, Naming Conventions, Creating Packages, Accessing a Package, Using a Package, Adding a Class to a Package, Hiding Classes. Multithreaded Programming: Introduction, Creating Threads, Extending the Thread Class, Stopping and Blocking a thread, Life Cycle of a thread, Using Thread Methods, Thread Exceptions, Thread Priority, Synchronization, Implementing the 'Runnable' Interface.

[12 Hours]

Unit - IV

Managing Exceptions, Applet Programming: Managing Errors and Exception: Introduction, Types of Exception Handling Code, Multiple Catch Statements, Using Finally Statement, Throwing Our Own Exceptions, Using Exceptions for Debugging. Applet Programming: Introduction, How Applets Differ from Applications, Preparing to Write Applets, Building Applet Code, Applet Life Cycle, Creating an Executable applet, Designing a Web Page, Applet Tag, Adding Applet to HTML File, running the Applet, More About HTML Tags, Displaying Numerical Values, Getting Input from the User.

[12 Hours]

Unit - V

Graphics Programming, Input/Output: Graphics programming: Introduction, The Graphics Class, Lines and rectangles, circles, and Ellipses, Drawing Arcs, Drawing Polygons, Lines Graphs, Using Control Loops in Applets, Drawing Bar Charts. Managing Input/Output Files in JAVA: Introduction, Concept of Streams, Stream Classes, Byte Stream Classes, Character Stream Classes, Using Streams, Other Useful I/O Classes, Using the File Class, Input / Output Exceptions, Creation of Files, Reading / Writing Characters, Reading / Writing Bytes, Handling Primitive Data Types, Concatenating and Buffering Files, Interactive Input and output, Other Stream Classes.

[12 Hours]

Text Books:

1. A.Balaguruswamy, "Programming with JAVA", A Primer, TMH, 1999.

Reference Books:

1. Thomas Boutel, "CGI programming in C and Perl", Addison – Wesley, 1996.
2. Jefry Dwight et al, Using CGI, Second Edition, Prentice Hall, India, 1997.
3. Patrick Naughton & Herbert Schildt, JAVA 2: The Complete Reference, THM, 1999.
4. Schildt, "JAVA The Complete Reference", 7th Edition.

BCA505T : MICROPROCESSOR AND ASSEMBLY LANGUAGE

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Architecture and Operation: Introduction to 8085, Microprocessor organization/ architecture & its operation Microprocessor based system, memory interfacing , basic interfacing concepts ,interfacing I/O devices

[12 Hours]

Unit - II

Programming the 8085: Programming model, instruction classification , Instruction format, addressing modes, writing assembly level programs-overview of instruction set, timing diagrams data transfer, Arithmetic, Logic branch operations.

[12 Hours]

Unit - III

Programming techniques- Looping Counting and Indexing , 16 bit arithmetic operations , logic operations Compare and rotate operations . Counters and Time delays , Generation of pulse waveforms. Stacks and subroutines- conditional CALL and RETURN instructions. Advanced subroutine concepts. BCD to Binary and Binary to BCD conversions, BCD to 7 segment conversion , Binary to ASCII and ASCII to Binary code conversion, BCD addition and subtraction , multiplication and division.

[12 Hours]

Unit – IV

Memory Interface: Memory and I/O mapping and interfacing concepts. Interrupts : 8085 vectored interrupts , Restart as Software instructions, additional I/O concepts and processes.

[12 Hours]

Unit – V

Interfacing of peripherals (I/Os) and applications: Interfacing Keyboard (linear and matrix) and 7 segment display including multiplexes, 8279 programmable keyboard /display interface, 8255 PPI , 8259 PIC , DMA and 8257 DMA controller , Serial communication using 8251, D to A converters and interfacing, RS323 serial

communication standards.

[12 Hours]

Text books

1. R.S.Gaonkar – Microprocessor Architecture , Programming and Application with 8085. Penram Int. 3rd Edn.

References

1. Douglas V.Hall- Microprocessors and digital systems, MH.
2. Kenneth L.Short - Microprocessor and Programmed Logic ‘’, PHI , 2nd Edn.
3. Aditya P. Mathur- Introduction to Microprocessors, 3RD Edn. TMH
4. Antonakos: Introduction to Intel family of Microprocessors Pearson Education
5. Hoffer: Modern Systems Analysis and Design Pearson Education Kendall, System Analysis and Design

BCA504P : JAVA PROGRAMMING LAB

PART - A

1. Write a program to find factorial of list of number reading input as command line argument.
2. Write a program to display all prime numbers between two limits.
3. Write a program to sort list of elements in ascending and descending order and show the exception handling.
4. Write a program to implement all string operations.
5. Write a program to find area of geometrical figures using method.
6. Write a program to implement constructor overloading by passing different number of parameter of different types.
7. Write a program to create student report using applet, read the input using text boxes and display the o/p using buttons.
8. Write a program to calculate bonus for different departments using method overriding.
9. Write a program to implement thread, applets and graphics by implementing animation of ball moving.
10. Write a program to implement mouse events and keyboard events.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA505P: ASSEMBLY LANGUAGE PROGRAMMING LAB

PART - A

1. Exchange of two 16-bit numbers.
2. Addition & Subtraction of two 8 –bit HEX numbers.
3. Subtraction of two 16 –bit numbers.
4. Two n-byte Number addition.
5. Block Transfer.
6. ‘N’ Decimal Number addition.
7. 4-Digit BCD addition.
8. Subtraction of 16 –bit number.
9. Sorting of array in ascending order.
10. Multiplication of 2 digit BCD

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA506P : PROJECT

Students can develop a project in team (maximum three members). They should implement their project in college in any RDBMS package or any language available in the college. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 100 marks is distributed as follows:

Demonstration and Presentation	65 Marks
Viva-voce	25 Marks
Project Report	10 Marks

SIXTH SEMESTER BCA

BCA601T : THEORY OF COMPUTATION

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction to Finite Automata: The central concepts of Automata theory; Deterministic finite automata; Nondeterministic finite automata. An application of finite automata,

Finite automata with Epsilon transitions.

[12 Hours]

Unit - II

Regular Expressions: Finite Automata and Regular Expressions Applications of Regular Expressions. Regular languages; Proving languages not to be regular languages; Closure properties of regular languages; Decision properties of regular languages; Equivalence and minimization of automata.

[12 Hours]

Unit - III

Context-free grammars: Parse trees; Applications; Ambiguity in grammars and Languages. Definition of the Pushdown automata; the languages of a PDA; Equivalence of PDA's and CFG's.

[12 Hours]

Unit - IV

Deterministic Pushdown Automata: Normal forms for CFGs; The pumping lemma for CFGs; Closure properties of CFLs. Problems that Computers cannot solve.

[12 Hours]

Unit - V

The Turing machine: Programming techniques for Turing Machines. Undecidability, A Language that is not recursively enumerable; An Undecidable problem that is RE; Post's Correspondence problem.

[12 Hours]

Text Book:

1. John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman: Introduction to Automata Theory, Languages and Computation, 3rd Edition, Pearson Education, 2011.

Reference Books:

1. John C Martin: Introduction to Languages and Automata Theory, 3rd Edition, Tata McGraw-Hill, 2007.
2. Daniel I.A. Cohen: Introduction to Computer Theory, 2nd Edition, John Wiley & Sons, 2009.
3. Thomas A. Sudkamp: An Introduction to the Theory of Computer Science, Languages and Machines, 3rd Edition, Pearson Education, 2006

BCA602T: SYSTEM PROGRAMMING

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Background: Machine Structure, Evolution of the Components of a Programming System, Assembler, Loaders, Macros, Compilers, Formal Systems. Machine Structure, Machine Language and assembly language: General Machine Structure, Machine Language, Assembly Language

[12 Hours]

Unit - II

Assemblers: General Design Procedure, Design of assembler, Statement of Problem, Data structure, Format of databases, algorithm, look for modularity, Table Processing: Searching and Sorting. The Problem, Searching a table, linear Search, binary Search, Sorting, interchange sort, Shell Sort, Bucket Sort, Radix Exchange Sort, address calculation sort, comparison of sorts, hash or random entry searching.

[12 Hours]

Unit - III

MACRO LANGUAGE AND THE MACRO PROCESSOR: Macroinstruction, Features of macro Facility, Macro instruction arguments, conditional macro Expansion, macro calls within macros, macro Instructions defining macros, Implementation, Statement of problem, implementation of a restricted facility, A two pass algorithm. A single pass algorithm, implementation of macro calls within macros. Implementation within an assembles.

[12 Hours]

Unit - IV

LOADERS: Loader schemes, Compile & go, General loading Scheme, absolute loaders, Subroutine Languages, Relocating loaders, Direct linking loaders, other loading Schemes – Binders, linking loaders, Overlays, Dynamic binders. Design of absolute loader, Design of a Direct linking loader Specification of problem, Specification of data structure, format of data bases algorithm.

[12 Hours]

Unit - V

COMPILERS: Statement of problem, Problem1: Recognizing basic Elements, Problem2: Recognizing Syntactic cutis & interpreting meaning, Problem3: Storage Allocation, Problem4: Code Generation. Optimization (machine independent) optimization (machine dependent), Assembly Phase, General Model of complier. PHASES OF COMPILERS: Simple Structure of Compiler, Brief introduction to 7 Phases of Compilers.

[12 Hours]

Text Books:

1. John J. Donowon, System Programming, TATA McGraw-Hill.

Reference Books:

1. Dhamdhare: System programming and Operating System TMH
2. Beck: System Software, 3/e Pearson Education.

BCA603T : CRYPTOGRAPHY AND NETWORK SECURITY

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Introduction: Security Goals, Cryptographic Attacks, Services and Mechanism, Techniques. Mathematics of Cryptography: Integer Arithmetic, Modular Arithmetic, Matrices, Linear Congruence.

[12 Hours]

Unit – II

Traditional Symmetric-Key Ciphers: Introduction, Substitution Ciphers, Transpositional Ciphers, Stream and Block Ciphers. Data Encryption Standard (DES): Introduction, DES Structure, DES Analysis, Security of DES, Multiple DES, Examples of Block Ciphers influenced by DES. Advanced Encryption Standard: Introduction, Transformations, Key Expansion, The AES Ciphers, Examples, Analysis of AES.

[12 Hours]

Unit III

Encipherment using Modern Symmetric-Key Ciphers: Use of Modern Block Ciphers, Use of Stream Ciphers, Other Issues. Mathematics of Asymmetric-Key Cryptography: Primes, Primality Testing, Factorization, Chinese Remainder Theorem, Quadratic Congruence, Exponentiation and Logarithm. Asymmetric Key Cryptography: Introduction, RSA Cryptosystem, Rabin Cryptosystem, Elgamal Cryptosystem, Elliptic Curve Cryptosystems.

[12 Hours]

Unit - IV

Cryptography Hash Functions: Introduction, Description of MD Hash Family, Whirlpool, SHA-512. Digital Signature: Comparison, Process, Services, Attacks on Digital Signature, Digital Signature Schemes, Variations and Applications. Key Management: Symmetric-Key Distribution, Kerberos, Symmetric-Key Agreement, Public-Key Distribution, Hijacking.

[12 Hours]

Unit - V

Security at the Application Layer: PGP and S/MIME: Email, PGP, S/MIME. Security at the Transport Layer: SSL and TLS: SSL Architecture, Four Protocols, SSL Message Formats, Transport Layer Security. Security at the Network Layer: IPSec: Two modes, Two security protocols, Security association, security policy, Internet Key exchange, ISAKMP.

[12 Hours]

Text Book:

1. Behrouz A. Forouzan, Debdeep Mukhopadhyay: Cryptography and Network Security, 2nd Edition, Special Indian Edition, Tata McGraw-Hill, 2011.

Reference Books:

1. Michael E. Whitman and Herbert J. Mattord: Principles of Information Security, 2nd Edition, Thomson, Cengage Delmar Learning India Pvt., 2012.
2. William Stallings: Network Security Essentials: Applications and Standards, 4th Edition, Pearson Education, 2012.

BCA604T: WEB PROGRAMMING

Total Teaching Hours : 60

No of Hours / Week : 04

Unit - I

Fundamentals of Web: Internet, WWW, Web Browsers, and Web Servers, URLs, MIME, HTTP, Security, The Web Programmers Toolbox. XHTML: Origins and evolution of HTML and XHTML, Basic syntax, Standard XHTML document structure, Basic text markup, Images, Hypertext Links, Lists, Tables.

[12 Hours]

Unit - II

HTML and XHTML: Forms, Frames in HTML and XHTML, Syntactic differences between HTML and XHTML. CSS: Introduction, Levels of style sheets, Style specification formats, Selector forms, Property value forms, Font properties, List properties, Color, Alignment of text, The Box model, Background images, The and <div> tags, Conflict resolution.

[12 Hours]

Unit -III

Java Script: Overview of JavaScript; Object orientation and JavaScript; General syntactic characteristics; Primitives, Operations, and expressions; Screen output and keyboard input; Control statements; Object creation and Modification; Arrays; Functions; Constructor; Pattern matching using expressions; Errors in scripts; Examples.

[12 Hours]

Unit - IV

Java Script and HTML Documents: The JavaScript execution environment; The Document Object Model; Element access in JavaScript; Events and event handling; Handling events from the Body elements, Button elements, Text box and Password elements; The DOM 2 event model; The navigator object; DOM tree traversal and modification.

[12 Hours]

Unit - V

Dynamic Documents with JavaScript: Introduction to dynamic documents; Positioning elements; Moving elements; Element visibility; Changing colors and fonts; Dynamic content; Stacking elements; Locating the mouse cursor; Reacting to a mouse click; Slow movement of elements; Dragging and dropping elements. XML: Introduction; Syntax; Document structure; Document Type definitions; Namespaces; XML schemas; Displaying raw XML documents; Displaying XML documents with CSS; XSLT style sheets; XML Processors; Web services.

[12 Hours]

Text Books

1. Robert W Sebesta, "Programming the World Wide Web", 4th Edition, Pearson Education, 2008.

Reference Books

1. M.Deitel, P.J.Deitel, A.B.Goldberg, "Internet & World Wide Web How to program", 3rd Edition, Pearson Education / PHI, 2004.
2. Chris Bates, "Web Programming Building Internet Applications", 3rd Edition, Wiley India, 2006.
3. Xue Bai et al, "The Web Warrior Guide to Web Programming", Thomson, 2003.
4. Sklar, "The Web Warrior Guide to Web Design Technologies", 1st Edition, Cengage Learning India.

BCA604P : WEB PROGRAMMING LAB

PART -A

1. Write a program to find factorial of list of number reading input as command line argument.
2. Write a program to sort list of element in ascending and descending order and show the exception handling.
3. Write a program to implement all string operations.
4. Write a program to find area of geometrical figures using method overloading.
5. Write a program to implement constructor overloading by passing different number of parameter of different types.
6. Write a program to create student report using applet, read the input using text boxes and display the o/p using buttons.
7. Write a program to implement an apply by passing parameter to HTML.
8. Write a program to implement thread, applets and graphics by implementing animation of ball moving.
9. Write a program to implement mouse events.
10. Write a program to implement keyboard events.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks

Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA604P : WEB PROGRAMMING LAB

PART - A

1. Create a form having number of elements (Textboxes, Radio buttons, Checkboxes, and so on). Write JavaScript code to count the number of elements in a form
2. Create a HTML form that has number of Textboxes. When the form runs in the Browser fill the textboxes with data. Write JavaScript code that verifies that all textboxes has been filled. If a textboxes has been left empty, popup an alert indicating which textbox has been left empty.
3. Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.
4. Create a page with dynamic effects. Write the code to include layers and basic animation.
5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined function)
6. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
7. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.
8. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
9. Create a form consists of a two Multiple choice lists and one single choice list
 - (a) The first multiple choice list, displays the Major dishes available
 - (b) The second multiple choice list, displays the Starters available.
 - (c) The single choice list, displays the Soft drinks available.
10. Create a web page using two image files, which switch between one another as the mouse pointer moves over the image. Use the on Mouse Over and on Mouse Out event handlers.

PART – B

During practical examination the External and Internal examiners may prepare exam question paper related to theory syllabus apart from Part-A. (A minimum of 10 Programs has to be prepared).

Note :

- a) The candidate has to write both the programs One from Part-A and other from Part-B and execute one program as of External examiner choice.
- b) A minimum of 10 Programs has to be done in Part-B and has to be maintained in the Practical Record.
- c) Scheme of Evaluation is as follows:

Writing two programs	- 10 Marks
Execution of one program	- 10 Marks
Formatting the Output	- 05 Marks
Viva	- 05 Marks
Record	- 05 Marks
Total	- 35 Marks

BCA605P : PROJECT WORK

Students should individually develop a project. They should implement their project in college in any RDBMS package or any language available in the college. The project should be web based. The students have to collect data outside practical hours. Project may be taken outside but must be implemented in the college. Internal marks can be awarded by the guide by evaluating the performance of the students during the course of project work. In viva-voce the questions must be directed only on the project work to assess the involvement and understanding of the problem by the students.

The project carries 200 marks is distributed as follows:

Demonstration and Presentation	130 Marks
Viva-voce	50 Marks
Project Report	20 Marks

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UNIVERSITY GRANTS COMMISSION

Ability Enhancement Compulsory Course (AECC – Environment Studies)

Unit 1 : Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)

Unit 2 : Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

Unit 3 : Natural Resources : Renewable and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water : Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(8 lectures)

Unit 4 : Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

(8 lectures)

Unit 5 : Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management : Control measures of urban and industrial waste.
- Pollution case studies.

(8 lectures)

Unit 6 : Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context. (7 lectures)

Unit 7 : Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management : floods, earthquake, cyclones and landslides.
- Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

(6 lectures)

Unit 8 : Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 lectures)

Suggested Readings:

1. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
3. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
4. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36-37.
7. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
8. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
11. Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
12. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
13. Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
14. Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
16. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
17. Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
18. Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
19. Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
20. World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University Press.



BANGALORE UNIVERSITY

REVISED SYLLABUS 2014 – 2015

B.Com. (CBCS) DEGREE SEMESTER SCHEME

(Revised Syllabus on 08.03.2017 BOS)

DEPARTMENT OF COMMERCE

Central College Campus, Bangalore – 560 001.

REGULATIONS PERTAINING TO B.Com (CBCS) DEGREE SEMESTER SCHEME 2014 - 15

I. OBJECTIVES :

1. To cater to the manpower needs of companies in Accounting, Taxation, Auditing, Financial analysis and Management.
2. To develop business analysts for companies, capital markets and commodity markets.
3. To prepare students to take up higher education to become business scientists, researchers consultants and teachers, with core competencies.
4. To develop human resources to act as think tank for Business Development related issues.
5. To develop entrepreneurs.
6. To develop business philosophers with a focus on social responsibility and ecological sustainability.
7. To develop IT enabled global middle level managers for solving real life business problems and addressing business development issues with a passion for quality competency and holistic approach.
8. To develop ethical managers with interdisciplinary approach.
9. To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Capital and Commodity Markets, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
10. Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.

II. ELIGIBILITY FOR ADMISSION :

Candidates who have completed Two year Pre – University course of Karnataka State or its equivalent with Business Studies and Accountancy as two major subjects of study in both first and second year pre-university are eligible for admission into this course.

III. DURATION OF THE COURSE:

The course of study is four (04) years of Eight Semesters. A candidate shall complete his/her degree within eight (08) academic years from the date of his/her admission to the first semester. However, students successfully complete Two (02) years of the course and leave the course, will be awarded Diploma in Commerce. Students successfully completes Three (03) years of the course will be awarded Bachelors Degree in Commerce (B.Com.). An option is provided to the students to continue the course to the Fourth year and those who successfully complete the Fourth year will be awarded Bachelors Degree in Commerce (Hon.) {B.Com, (Hon.)}.

IV. MEDIUM OF INSTRUCTION

The medium of instruction shall be English. However, a candidate will be permitted to write the examination either in English or in Kannada.

V. CLASS ROOM STRENGTH OF STUDENTS

There shall be Maximum of 60 students in each section.

VI. ATTENDANCE:

- a. For the purpose of calculating attendance, each semester shall be taken as a Unit.
- b. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the subjects compulsorily.
- c. A student who fails to complete the course in the manner stated above shall not be permitted to take the University examination.

VII. COURSE MATRIX

- (i) Annexure – 1 for B.Com Course Matrix
- (ii) B.Com (Vocational) and BA (Restructured), the changes made in 2012-13 is retained

VIII. TEACHING AND EVALUATION:

M.Com/MBA/MFA/MBS graduates with B.Com, B.B.M, BBA& BBS as basic degree from a recognized university are only eligible to teach and to evaluate the subjects (excepting languages, compulsory additional subjects and core Information Technology related subjects) mentioned in this regulation. Languages and additional subjects shall be taught by the graduates as recognized by the respective board of studies.

VIII.SKILL DEVELOPMENT / RECORD MAINTENANCE AND SUBMISSION:

- a. Every college is required to establish a dedicated business lab for the purpose of conducting practical/on line assignments to be written in the record.
- b. In every semester, the student should maintain a Record Book in which a minimum of 5 exercises/programs per subject are to be recorded. This Record has to be submitted to the Faculty for evaluation at least 15 days before the end of each semester.

IX. SCHEME OF EXAMINATION:

- a. There shall be a university examination at the end of each semester. The maximum marks for the university examination in each paper shall be 70.
- b. Of the 30 marks of Internal Assessment, 20 marks shall be based on Two tests. Each test shall be of at least 01 hour duration to be held during the semester. The average of two tests shall be taken as the internal assessment marks. The remaining 10 marks of the Internal Assessment shall be based on Attendance and Skill Development Record of 05 marks each.
- c. The marks based on attendance shall be awarded as given below:

75% to 80%	= 02 marks.
81% to 85%	= 03 marks.
86% to 90%	= 04 marks.
91% to 100%	= 05 marks.
- d. Marks for skill development shall be awarded by the faculty concerned based on Skill Development exercises provided in the syllabus of each paper. The student is required to prepare/workout the concerned exercises in a Record Book maintained by him/her and shall submit it the faculty concerned at least 15 days before the last date of the semester.

X. APPEARANCE FOR THE EXAMINATION:

- a) A candidate shall apply for all the parts in each examination when he/she appears for the first time. A candidate shall be considered to have appeared for the examination only if he/she has

submitted the prescribed application for the examination along with the required fees to the university.

- b) A candidate who has passed any language under Part-I shall be eligible to claim exemption from the study of the language if he/she has studied and passed the language at the corresponding level.
- c) Further, candidates shall also be eligible to claim exemption from studying and passing in those commerce subjects which he/she has studied and passed at the corresponding level, subject to the conditions stipulated by the university.
- d) A candidate who is permitted to seek admission to this degree course on transfer from any other University shall have to study and pass the subjects which are prescribed by the University. Such candidates shall not however, be eligible for the award of ranks.

XI. MINIMUM FOR A PASS:

Candidates who have obtained a minimum of 35% marks in university examination (i.e. 25 marks out of 70 marks of theory examination) and 40% in aggregate (i.e., total of university examination and internal assessment marks) in each subject shall be eligible for a pass or exemption in that subject.

XII. CLASSIFICATION OF SUCCESSFUL CANDIDATES:

1. The results of the First to Sixth semester degree examination shall be declared and classified separately as follows:
 - a. First Class: Those who obtain 60% and above of the total marks of parts I, II and III.
 - b. Second Class: Those who obtain 50% and above but less than 60% of total marks of parts I, II and III.
 - c. Pass Class: Rest of the successful candidates who secure 40% and above but less than 50% of marks in part I, II and III.
2. Class shall be declared on the basis of the aggregate marks obtained by the candidates in this degree course (excluding languages (part I) and non-core subjects (Part III)) as a whole. However, only those candidates who have passes each semester university examination in the first attempt only shall be eligible for award of ranks. The first ten ranks only shall be notified.

XIII. MEDALS AND PRIZES:

No candidates passing an external examination shall be eligible for any scholarship, fellowship, medal, prize or any other award.

XIV. TERMS AND CONDITIONS:

- a) A candidate is allowed to carry all the previous un-cleared papers to the subsequent semester/semesters.
- b) Such of those candidates who have failed/remained absent for one or more papers henceforth called as repeaters, shall appear for exam in such paper/s during the three immediately succeeding examinations. There shall be no repetition for internal assessment test.
- c) The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.

XV. PATTERN OF QUESTION PAPER:

Each theory question paper shall carry 70 marks and the duration of examination is 3 hours. The

Question paper shall ordinarily consist of three sections, to develop testing of conceptual skills, understanding skills, comprehension skills, articulation and application of skills. The question paper setter shall be asked to prepare TWO sets of papers with a maximum of 10% repetition. The Question Paper will be as per the following Model:

SECTION-A 1. a,b,c,d,e,f,g,	(Conceptual questions) Answer any Five	(05 X 02 = 10 Marks)
SECTION -B: 2,3,4,5,6.	(Analytical questions) Answer any Three	(03 X 06 = 18 Marks)
SECTION-C: 7,8,9,10,11.	(Essay type questions) Answer any THREE	(03 X 14 = 42 Marks)
Total		70 Marks

XVI. PROVISION FOR IMPROVEMENT OF RESULTS:

The candidate shall be permitted to improve the results of the whole examination or of any Semester or a subject within the prescribed time by the university after the publication of the results. This provision shall be exercised only once during the course and the provision once exercised shall not be revoked. The application for improvement of results shall be submitted to the Registrar (Evaluation) along with the prescribed fee.

XVII. REMOVAL OF DIFFICULTY AT THE COMMENCEMENT OF THESE REGULATIONS:

If any difficulty arises while giving effect to the provision of these Regulations, the Vice Chancellor may in extraordinary circumstances, pass such orders as he may deem fit.

BANGALORE UNIVERSITY
B.COM (CBCS) SEMESTER SCHEME -- 2014 – 15
COURSE MATRIX

I SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	1.1	4	3	20	80	100	2
	Language – II : English	1.2	4	3	20	80	100	2
Part 2 Optional	Financial Accounting	1.3	4	3	30	70	100	2
	Indian Financial System	1.4	4	3	30	70	100	2
	Marketing and Services Management	1.5	4	3	30	70	100	2
	A. Corporate Administration OR B. Methods and Techniques for Business Decisions. (Students can choose any one)	1.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

II SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Languages	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	2.1	4	3	20	80	100	2
	Language – II : English	2.2	4	3	20	80	100	2
Part 2 Optional	Advanced Financial Accounting	2.3	4	3	30	70	100	2
	Retail Management	2.4	4	3	30	70	100	2
	Banking Law and Operations	2.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions – I	2.6	4	3	30	70	100	2
Part 3	Foundation Course*		3	3	20	80	100	2
	CC & EC*				50		50	1
Total Credits								15

III SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language: I Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	3.1	4	3	30	70	100	2
	Language – II:English	3.2	3	3	30	70	100	2
Part 2 Optional	Corporate Accounting	3.3	4	3	30	70	100	2
	Financial Management	3.4	4	3	30	70	100	2
	Business Ethics	3.5	4	3	30	70	100	2
	Quantitative Analysis for Business Decisions –II	3.6	4	3	30	70	100	2
	Public Relations and Corporate Communication	3.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

IV SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 1 Language	Language - I: Kannada/Sanskrit/Urdu/Tamil/ Telugu/Malayalam/Additional English / Marathi/ Hindi	4.1	4	3	30	70	100	2
	Language – II: English	4.2	3	3	30	70	100	2
Part 2 Optional	Advanced Corporate Accounting	4.3	4	3	30	70	100	2
	Cost Accounting	4.4	4	3	30	70	100	2
	E-Business and Accounting	4.5	4	3	30	70	100	2
	Stock and Commodity Markets	4.6	4	3	30	70	100	2
	Principles of Event Management	4.7	3	3	30	70	100	2
Part 3	Foundation Course*		3	3	30	70	100	2
	CC & EC*				50		50	1
Total Credits								17

V SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Entrepreneurship Development	5.1	4	3	30	70	100	3
	International Financial Reporting Standards	5.2	4	3	30	70	100	3
	Income Tax – I	5.3	4	3	30	70	100	3
	Costing Methods	5.4	4	3	30	70	100	3
	Elective – I	5.5	4	3	30	70	100	3
	Elective – II	5.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

VI SEMESTER

	Subjects	Paper	Instruction hrs/week	Duration of Exam(hrs)	Marks			Credits
					IA	Exam	Total	
Part 2 Optional	Business Regulations	6.1	4	3	30	70	100	3
	Principles and Practice of Auditing	6.2	4	3	30	70	100	3
	Income Tax – II	6.3	4	3	30	70	100	3
	Management Accounting	6.4	4	3	30	70	100	3
	Elective – I	6.5	4	3	30	70	100	3
	Elective – II	6.6	4	3	30	70	100	3
Part 3	SDC		3	3	30	70	100	2
Total Credits								20

ELECTIVE GROUPS**1. ACCOUNTING & TAXATION GROUP**

Semester No.	Paper No.	Title of the Paper
V	AC. 5.5	Advanced Accounting
	AC.5.6	Goods and Services Tax
VI	AC.6.5	Business Taxation
	AC.6.6	Cost Management

2. FINANCE GROUP

Semester No.	Paper No.	Title of the Paper
V	FN.5.5	International Financial Management
	FN.5.6	Goods and Services Tax
VI	FN.6.5	Performance Management
	FN.6.6	International Auditing & Assurance

3. INFORMATION & TECHNOLOGY GROUP

Semester No.	Paper No.	Title of the Paper
V	I.T 5.5	Accounting Information Systems
	I.T 5.6	Enterprise Resource Planning
VI	I.T 6.5	Information Technology and Audit
	I.T 6.6	Banking Technology and Management

4. BANKING & INSURANCE GROUP

Semester No.	Paper No.	Title of the Paper
V	BI 5.5	International Banking & Forex Management
	BI 5.6	Life & General Insurance
VI	BI 6.5	Risk Management
	BI 6.6	Marketing of Insurance Products

1. Foundation, Skill Development or Interdisciplinary Courses (Foundation Course*)

(Common for all programmes):

- Constitution of Indian and Human Rights
- Environment and Public Health
- Computer Applications and Information Technology
- Business Entrepreneurship and Management
- Philosophy, Psychology and Life Skills
- Personality Development and Leadership / Integrating Mind, Body and Heart
- Indian History, Culture and Diversity
- Research Methodology
- Education and Literacy / Science and Life
- Human Resource Development .Management
- One of the Foreign Languages such as German, French etc.
- Any other Course prescribed by the University from time to time
- Commodity & Stock Market
- Mathematics in finance.

2. Co-and Extra – Curricular Activities (CC& EC*)

A student shall opt for any one of the following activities in the first four semesters offered in the college

- N.S.S / N.C.C./Rotary Activities / Rovers and Rangers
- Sports and Games / Activities related to Yoga
- A Small project work concerning the achievements of Indian in different fields
- Evolution of study groups/seminar circles on Indian thoughts and ideas
- Interaction with local communities in their neighborhood and learn about and from them
- Exploring different aspects of Indian civilizations
- Other activities such as Cultural Activities as prescribed by the University.

Evaluation of Co-and Extra Curricular Activities is as per the procedure evolved by the University from time to time.

1.3– FINANCIAL ACCOUNTING

OBJECTIVE:

The objective of this subject is to acquaint students with the accounting concepts, tools and techniques influencing Business Organizations.

Unit 1: INTRODUCTION TO FINANCIAL ACCOUNTING

08 Hrs

Introduction – Meaning and Definition – Objectives of Accounting – Functions of Accounting – Users of Accounting Information – Limitations of Accounting – Accounting Principles – Accounting Concepts and Accounting Conventions- Accounting Standards: List of Indian Accounting Standards.

Unit 2: CONVERSION OF SINGLE ENTRY INTO DOUBLE ENTRY SYSTEM 12 Hrs

Single entry system- Meaning – Features – Merits – Demerits – Types. Conversion into Double Entry system – Need for Conversion – Preparation of Statement of Affairs – Cashbook – Memorandum Trading Account – Total Debtors Account – Total Creditors Account – Bills Receivable Account – Bills Payable Account – Trading and Profit & Loss Account and Balance Sheet.

Unit 3: HIRE PURCHASE SYSTEM

12 Hrs

Meaning of Hire Purchase and Installment Purchase System- difference between Hire Purchase and Installment Purchase – Important Definitions – Hire Purchase Agreement – Hire Purchase Price – Cash Price – Hire Purchase Charges – Net Hire Purchase Price – Net Cash Price – Calculation of Interest – Calculation of Cash Price – Journal Entries and Ledger Accounts in the books of Hire Purchaser and Hire Vendor (Asset Accrual Method only).

Unit 4: ROYALTY ACCOUNTS

12 Hrs

Meaning and definition – Technical Terms – Royalty – Landlord – Tenant – Minimum Rent – Short Workings – Recoupment of Short Working under (Fixed Period) restrictive and non-restrictive (Floating Period) Recoupment within the Life of the Lease – Treatment of Strike and Stoppage of work – Accounting Treatment in the books of Lessee and lessor – journal entries and Ledger Accounts including minimum rent account.

Unit 5: CONVERSION OF PARTNERSHIP FIRM INTO A LIMITED COMPANY 12 Hrs

Meaning – Need for conversion - Purchase Consideration – Mode of Discharge of Purchase Consideration – Methods of calculation of Purchase Consideration – Net Payment Method – Net Assets Method –Journal Entries and Ledger Accounts in the books of Vendor – Treatment of items: Dissolution Expenses, Unrecorded Assets and Liabilities, Assets and Liabilities not taken over by the Purchasing Company, Contingent liabilities, Incorporation entries and preparation of balance sheet of the purchasing company under vertical format.

SKILL DEVELOPMENT

- List out various accounting concepts and conventions (GAAP)
- List out Various Accounting Standards
- Collection & recording of Royalty agreement with regard to any suitable situation.
- Collection and recording of Hire Purchase Agreement.
- Ascertainment of Cash Price and Interestwith imaginary figures under Hire Purchase System.

BOOKS FOR REFERENCE

1. Arulanandam & Raman – Financial Accounting – I, HPH
2. Jawaharlal & Seema Srivastava :Financial Accounting, HPH
3. Dr. S.N. Maheswari: Financial Accounting, Vikas Publications
4. S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers
5. S. Jayapandian: Financial Accounting from Zero.
6. Radhaswamy and R.L. Gupta: Advanced Accounting , Sultan Chand
7. Guruprasad Murthy: Financial Accounting, HPH
8. Soundarajan & K. Venkataramana, Financial Accounting, SHBP.
9. Dr. Venkataraman & others (7 lecturers): Financial Accounting, VBH
10. Dr. Alice Mani: Financial Accounting, SBH.

1.4 INDIAN FINANCIAL SYSTEM

OBJECTIVE

The objective of this subject is to familiarize the students with regard to structure, organization and working of financial system in India.

Unit 1: FINANCIAL SYSTEM

12 Hrs

Introduction – Meaning – Classification of Financial System. Financial Markets – Functions and Significance of Primary Market, Secondary Market, Capital Market, & Money Market.

Unit 2: FINANCIAL INSTITUTIONS

14 Hrs

Types of Banking and Non-Banking Financial Institutions. Constitution, objectives & functions of IDBI, SFCs, SIDCs, LIC, EXIM Bank. Mutual Funds – features and types.

Unit 3: COMMERCIAL BANKS

10 Hrs

Introduction – Role of Commercial Banks – Functions of Commercial Banks – Primary Functions and Secondary Functions – Investment Policy of Commercial Banks. Narasimham committee report on banking sector reforms.

Unit 4: REGULATORY INSTITUTIONS

10 Hrs

Reserve Bank of India (RBI) – Organization – Objectives – Role and Functions. The Securities Exchange Board of India (SEBI) – Organization and Objectives.

Unit 5: FINANCIAL SERVICES

10 Hrs

Meaning & Definition – Features – Importance. Types of Financial Services – factoring, leasing, venture capital, Consumer finance - housing & vehicle finance.

SKILL DEVELOPMENT

- Draft a chart showing the financial services in the Indian Financial System.
- List the Instruments traded in the Financial Markets.
- Draft the application forms for opening a Fixed, Current and Savings Bank Accounts.
- Collection and recording for Foreign Exchange rates of different currencies Vis-à-vis Rupee.
- Specimen of Debit and Credit cards.
- Specimen of Cheque with MICR technology.

BOOKS FOR REFERENCE

1. Vasantha Desai: The Indian Financial System, HPH
2. G. Ramesh Babu; Indian Financial System. HPH
3. Dr. Bharatish Rao, B.R. Bharghavi – Indian Financial System, VBH
4. Meir Kohn: Financial Institutions and Markets, Tata McGraw Hill
5. Dr. Alice Mani: Indian Financial System, SBH.
6. L M Bhole: Financial Institutions and Markets, Tata Mc Graw Hill
7. M Y Khan: Indian Financial System, TMH
8. A Datta ; Indian Financial System, Excel Books
9. D.K. Murthy and Venugopal : Indian Financial System I.K. International Publishers
10. P N Varshney & D K Mittal: Indian Financial System, Sulthan Chand & Sons
11. E Gardon & K Natarajan: Financial Markets & Services, HPH
12. S.C. Sharma and Monica : Indian Financial System I.K. International Publishers
13. K. Venkatramana, Indian Financial System, SHBP.

1.5 MARKETING AND SERVICES MANAGEMENT

OBJECTIVE:

The objective is to familiarize the students with the principles of marketing and focus them towards Marketing and Management of Services

Unit 1: INTRODUCTION TO MARKETING

10Hrs

Meaning and definition - Goals – Concepts of Marketing – Approaches to Marketing – Functions of Marketing. Recent Trends in Marketing - e-business – Tele-marketing – M-Business – Green Marketing – Retailing, Relationship Marketing – Customer Relationship Management.

Unit 2: MARKETING ENVIRONMENT

12Hrs

Meaning – demographic- economic – natural – technological – political – legal – socio cultural environment. Market Segmentation and Consumer Behaviour - Meaning & Definition - Bases of Market Segmentation – Consumer Behaviour – Factors influencing Consumer Behaviour.

Unit 3: MARKETING MIX

16Hrs

Meaning – elements – PRODUCT – product mix, product line – product life cycle – product planning – new product development – branding - packing and packaging. PRICING – factors influencing pricing, methods of pricing (only Meaning), and pricing policy - PHYSICAL DISTRIBUTION, Meaning, factors affecting channels, types of marketing channels, PROMOTION –Meaning and significance of promotion – personal selling and advertising.

Unit 4: INTRODUCTION TO SERVICES MANAGEMENT

10Hrs

Meaning of services – characteristics of services – classification of services – marketing mix in service industry – growth of service sector in India. Service processes – Designing the service process – service blueprint – back office & front office process.

UNIT 5: SERVICE SECTOR MANAGEMENT

08 Hrs

Tourism and Travel Services – concept, nature, significance and marketing. Health Care services – concept, nature, significance and marketing. Educational services - concept, nature, significance and marketing.

SKILL DEVELOPMENT

- Identify the product of your choice and describe in which stage of the product life cycle it is positioned.
- Suggest strategies for development of a new product.
- Study of Consumer Behaviour for a product of your choice.
- Develop an Advertisement copy for a product.
- Prepare a chart for distribution network for different products.

BOOKS FOR REFERENCE

1. Dr. Shajahan. S; Service Marketing (Concept, Practices & Cases); Himalaya Publishing House; Mumbai; First Edition – Financial Service in India.
2. Philip Kotler - Marketing Management, PHI
3. Rekha. M.P. & Vibha V – Marketing & Services Mgt – VBH.
4. Sunil B. Rao - Marketing & Services Mgt – HPH.
5. Dr. Alice Mani: Marketing & Services Management, SBH.
6. J.C. Gandhi - Marketing Management, TMH
7. Stanton W.J. etzal Michael & Walker, Fundamentals of Management, TMH

8. Jayachandran ; Marketing Management. Excel Books.
9. K. Venkatramana, Marketing Management, SHBP.
10. P N Reddy & Appanniah, Essentials of Marketing Management, HPH
11. Sontakki, Marketing Management, HPH
12. Cengiz Haksever etal – ‘Service Management and Operations’; Pearson Education.
13. Ramesh and Jayanthi Prasad : Marketing Management I.K. International Publishers
14. K. Karunakaran; Marketing Management, HPH.
15. Davar: Marketing Management.

1.6.(A) CORPORATE ADMINISTRATION

OBJECTIVE

The objective is to enable the students to get familiarized with the existing Company Law and Secretarial Procedure.

Unit 1: INTRODUCTION TO COMPANY

12 Hrs

Meaning and Definition – Features – Steps in formation of Joint Stock Company, High Lights of Companies Act 2013 - Kinds of Companies – One Person Company, Private Company, Public Company, Company limited by Guarantee, Company limited by Shares, Holding Company, Subsidiary Company, Government Company, Associate Company, Small Company, Foreign Company, Global Company, Body Corporate, Listed Company.

Unit 2: FORMATION OF A COMPANY

14 Hrs

Promotion Stage: Meaning of Promoter, Position of Promoter & Functions of Promoter, Incorporation Stage – Meaning & contents of Memorandum of Association & Articles of Association, Distinction between Memorandum of Association and Articles of Association, Certificate of Incorporation, Subscription Stage – Meaning & contents of Prospectus, Statement in lieu of Prospects and Book Building, Commencement Stage – Document to be filed, e-filing, **Register of Companies**, Certificate of Commencement of Business.

Unit 3: COMPANY ADMINISTRATION

18 Hrs

Key Managerial Personnel – Managing Director, Whole time Directors, the Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Auditors – Appointment – Powers - Duties & Responsibilities. Managing Director – Appointment – Powers – Duties & Responsibilities. Audit Committee, CSR Committee. Company Secretary - Meaning, Types, Qualification, Appointment, Position, Rights, Duties, Liabilities & Removal or dismissal.

Unit 4: CORPORATE MEETINGS

08 Hrs

Corporate Meetings - Types of Meetings – Annual General Meeting – Extraordinary General Meetings – Board Meetings and Resolutions - Requisites of a valid meeting

Unit 5: FORMATION OF GLOBAL COMPANIES

04 Hrs

Meaning – Types – Features – Legal Formalities – Administration.

SKILL DEVELOPMENT

- Drafting of Memorandum of Association, Drafting Articles of Association.
- Drafting Notice of Company Meetings – Annual, Special, Extraordinary and Board meetings.
- Drafting Resolutions of various meetings – different types.
- Chart showing Company's Organization Structure.
- Chart showing different types of Companies.

BOOKS FOR REFERENCE

1. S.N Maheshwari; Elements of Corporate Law, HPH.
2. Balchandran – Business Law for Management HPH
3. Dr. B.G. Bhaskar, K.R. Mahesh Kumar – Corporate Administration, VBH
4. Dr. P.N. Reddy and H.R. Appanaiah: Essentials of Company Law and Secretarial Practice, HPH.
5. M.C. Shukla & Gulshan: Principles of Company Law.
6. K. Venkataramana, Corporate Administration, SHBP.
7. N.D. Kapoor: Company Law and Secretarial Practice, Sultan Chand.
8. C.L Bansal: Business and Corporate Law
9. M.C. Bhandari: Guide to Company Law Procedures, Wadhwa Publication.
10. S.C. Kuchal: Company Law and Secretarial Practice.
11. S.C. Sharma : Business Law, I.K. International Publishers
12. S.N Maheshwari ; Elements of Corporate Law, Vikas Publishers.

1.6 (B) METHODS AND TECHNIQUES FOR BUSINESS DECISIONS

OBJECTIVE

The objective is to provide basic knowledge of mathematics and their application to commercial situations.

Unit 1: NUMBER SYSTEM

06 Hrs

Introduction – Natural Numbers - Even Numbers – Odd Numbers – Integers – Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems).

Unit 2: THEORY OF EQUATIONS

10 Hrs

Introduction – Meaning - Types of Equations – Simple/ Linear Equations and Simultaneous Equations (only two variables), Elimination and Substitution Methods only. Quadratic Equation - Factorization and Formula Method ($ax^2 + bx + c = 0$ form only). Problems on Commercial Applications.

Unit 3: MATRICES AND DETERMINANTS

14 Hrs

Meaning – types – operation on matrices – additions – subtractions and multiplication of two matrices – transpose – determinants – minor of an element – co-factor of an element –inverse – crammers rule in two variables – application oriented problems.

Unit 4: COMMERCIAL ARITHMETIC

16 Hrs

Simple Interest, Compound Interest including half yearly and quarterly calculations, Annuities, Percentages, Bills Discounting, Ratios and proportions, duplicate-triplicate and sub-duplicate of a ratio. Proportions: third, fourth and inverse proportion - problems.

Unit 5: PROGRESSIONS

10 Hrs

PROGRESSIONS: Arithmetic Progression - Finding the 'nth term of AP and Sum to nth term of AP. Insertion of Arithmetic Mean Geometric Progression – Finding the 'nth term of GP and sum to 'n' the term of GP and insertion of Geometric Mean

SKILL DEVELOPMENT:

- Develop an Amortization Table for Loan Amount – EMI Calculation.
- Secondary overhead distribution summary using Simultaneous Equations Method.
- Preparation of Bank Statement.
- Application of Matrix In Business Problems

BOOKS FOR REFERENCE:

- Saha: Mathematics for Cost Accountants, Central Publishers
- R.G. Saha & Others – Methods & Techniques for Business Decisions, VBH
- Dr. Sancheti & Kapoor: Business Mathematics and Statistics, Sultan Chand
- Zamarudeen: Business Mathematics, Vikas
- R.S Bhardwaj :Mathematics for Economics & Business
- Madappa, mahadi Hassan, M. Iqbal Taiyab – Business Mathematics, Subhash
- G.R. Veena and Seema : Business Mathematics and Statistics I.K. Intl Publishers

2.3 ADVANCED FINANCIAL ACCOUNTING

OBJECTIVE :

The objective of this subject is to acquaint the students with the few accounting standards and make them familiar with the accounting procedures for different types of business.

Unit 1: INSURANCE CLAIMS

12 Hrs

Introduction – Need – Loss of Stock Policy – Steps for ascertaining Fire insurance claim – Treatment of Salvage – Average Clause – Treatment of Abnormal Items – Computation of Fire insurance claims.

Unit 2: CONSIGNMENT ACCOUNTS

12 Hrs

Introduction – Meaning – Consignor – Consignee – Goods Invoiced at Cost Price – Goods Invoiced at Selling Price – Normal Loss – Abnormal Loss – Valuation of Stock – Stock Reserve – Journal Entries – Ledger Accounts in the books of Consignor and Consignee.

Unit 3: ACCOUNTING FOR JOINT VENTURES

12 Hrs

Introduction – Meaning – Objectives – Distinction between joint venture and consignment – Distinction between joint venture and partnership – maintenance of accounts in the books of co-venturers – maintaining separate books for joint venture – preparation of memorandum joint venture - problems.

Unit 4: BRANCH ACCOUNTS

10 Hrs

Introduction – Meaning – Objectives – Types of Branches - Dependent Branches – Features – Supply of Goods at Cost Price - Invoice Price – Branch Account in the books of Head Office (Debtors System Only).

Unit 5 : DEPARTMENTAL ACCOUNTS

10 Hrs

Meaning, Objectives, basis of allocation of expenses, Trading and Profit and Loss Account in Columnar form – (Excluding Inter Departmental Transfers at invoice price)

SKILL DEVELOPMENT

- Preparation of a claim statement with imaginary figures to submit to Insurance Company.
- Collection of transactions relating to any branch and prepare a branch account.
- List out the basis of Allocation of Departmental Expenses.
- Preparation of Consignment account with imaginary figures
- Preparation of Joint accounts with imaginary figures

BOOKS FOR REFERENCE:

1. Arulanandam & Raman; Advanced Accountancy, HPH
2. Anil Kumar – Advanced Financial Accounting HPH
3. Dr. Alice Mani: Advanced Financial Accounting, SBH.
4. Dr. S.N. Maheswari, Financial Accounting, Vikas Publication
5. S P Jain and K. L. Narang, Financial Accounting, Kalyani Publication
6. Souandrajan & K. Venkataramana, Financial Accounting, SHBP.
7. A Bannerjee; Financial Accounting.
8. Radhaswamy and R.L. Gupta, Advanced Accounting , Sultan Chand
9. M.C. Shukla and Grewel, Advanced Accounting , S Chand

2.4 RETAIL MANAGEMENT

OBJECTIVE

The objective is to enable students to acquire skills in Retail Management.

Unit 1: INTRODUCTION TO RETAIL BUSINESS **10 Hrs.**

Definition – functions of retailing - types of retailing – forms of retail business ownership. Retail theories – Wheel of Retailing – Retail life cycle. Retail business in India: Influencing factors – present Indian retail scenario. International perspective in retail business.

Unit 2: CONSUMER BEHAVIOUR IN RETAIL BUSINESS **12 Hrs.**

Buying decision process and its implication on retailing – Influence of group and individual factors, Customer shopping behaviour, Customer service and customer satisfaction. Retail planning process: Factors to consider in preparing a business plan – implementation – risk analysis.

Unit 3: RETAIL OPERATIONS **10 Hrs.**

Factors influencing location of Store - Market area analysis – Trade area analysis – Rating Plan method - Site evaluation. Retail Operations: Stores Layout and visual merchandising, Stores designing, Space planning, Inventory management, Merchandise Management, Category Management.

Unit 4: RETAIL MARKETING MIX **16 Hrs.**

Introduction -Product : Decisions related to selection of goods (Merchandise Management revisited) – Decisions related to delivery of service. Pricing : Influencing factors – approaches to pricing – price sensitivity - Value pricing – Markdown pricing. Place : Supply channel – SCM principles – Retail logistics – computerized replenishment system – corporate replenishment policies. Promotion : Setting objectives – communication effects - promotional mix. Human Resource Management in Retailing – Manpower planning – recruitment and training – compensation – performance appraisal Methods.

Unit 5: IMPACT OF INFORMATION TECHNOLOGY IN RETAILING **08 Hrs.**

Non store retailing (e-retailing) - The impact of Information Technology in retailing - Integrated systems and networking – EDI – Bar coding – Electronic article surveillance – Electronic shelf labels – customer database management system. Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing.

SKILL DEVELOPMENT

- Draw a retail life cycle chart and list the stages
- Draw a chart showing a store operations
- List out the major functions of a store manager diagrammatically
- List out the current trends in e-retailing
- List out the Factors Influencing in the location of a New Retail outlet.

BOOKS FOR REFERENCE

1. Suja Nair; Retail Management, HPH
2. Karthic – Retail Management, HPH
3. S.K. Poddar & others – Retail Management, VBH.
4. R.S Tiwari ; Retail Management, HPH

5. Barry Bermans and Joel Evans: "Retail Management – A Strategic Approach", 8th edition, PHI/02
6. A.J.Lamba, "The Art of Retailing", 1st edition, Tata Mc GrawHill, New Delhi, 2003.
7. Swapna Pradhan : Retailing Management, 2/e, 2007 & 2008, TMH
8. K. Venkataramana, Retail Management, SHBP.
9. James R. Ogden & Denise T.: Integrated Retail Management
10. A Sivakumar : Retail Marketing , Excel Books
11. Ogden : Biztantra, 2007
12. Levy & Weitz : Retail Management -TMH 5th Edition 2002
13. Rosemary Varley, Mohammed Rafiq-: Retail Management
14. Chetan Bajaj : Retail Management -Oxford Publication.
15. Uniyal &Sinha : Retail Management - Oxford Publications.
16. Araif Sakh ; Retail Management

2.5 BANKING LAW AND OPERATIONS

OBJECTIVE

The objective is to familiarize the students with the law and operations of Banking.

Unit 1: NEGOTIABLE INSTRUMENTS

10 Hrs

Introduction – Meaning & Definition – Features – Kinds of Negotiable Instruments: Meaning, Definition & Features of Promissory Notes, Bills of Exchange, Cheques - Crossing of Cheques – Types of Crossing – Endorsements: Meaning, Essentials & Kinds of Endorsement.

Unit 2: BANKER AND CUSTOMER RELATIONSHIP

10 Hrs

Introduction – Meaning of Banker – Bank - Meaning of Customer – General & Special Relationships.

Unit 3: BANKING OPERATIONS

18 Hrs

Collecting Banker: Meaning – Duties & Responsibilities of Collecting Banker – Holder for Value – Holder in Due Course - Statutory Protection to Collecting Banker

Paying Banker: Meaning – Precautions – Statutory Protection to the Paying Banker – Dishonor of Cheques – Grounds of Dishonor – Consequences of wrongful dishonor of Cheques.

Lending Operations: Principles of Bank Lending – Kinds of lending facilities such as Loans, Cash Credit, Overdraft, Bills Discounting, Letters of Credit – NPA: Meaning, circumstances & impact – regulations of priority lending for commercial banks.

Unit 4: CUSTOMERS AND ACCOUNT HOLDERS

12Hrs

Types of Customers and Account Holders - Procedure and Practice in opening and operating accounts of different customers including Minors - Meaning & Operations of Joint Account Holders, Partnership Firms, Joint Stock companies, Executors and Trustees, Clubs and Associations and Joint Hindu Undivided Family.

Unit 5: BANKING INNOVATIONS

06 Hrs

New technology in Banking – E-services – Debit and Credit cards. Internet Banking, ATM, Electronic Fund Transfer, MICR, RTGS, NEFT, DEMAT.

SKILL DEVELOPMENT:

- Collect and fill account opening form of SB A/c or Current A/c
- Collect and fill pay in slip of SB A/c or Current A/c.
- Draw specimen of Demand Draft.
- Draw different types of endorsement of cheques.
- Draw specimen of Travellers Cheques / Gift cheques / Credit cheques.
- List various customer services offered by atleast 2 banks of your choice.

BOOKS FOR REFERENCE

1. Gordon & Natarajan: Banking Theory Law and Practice, HPH
2. S. P. Srivastava ; Banking Theory & Practice, Anmol Publications
3. M. Prakhas, Bhargabhi R: Banking law & Operation, Vision Book House.
4. Tannan M.L: Banking Law and Practice in India, Indian Law House
5. Sheldon H.P: Practice and Law of Banking.
6. K. Venkataramana, Banking Operations, SHBP.
7. Kothari N. M: Law and Practice of Banking.
8. Neelam C Gulati: Principles of Banking Management.
9. Maheshwari. S.N.: Banking Law and Practice, Vikas Publication
10. Shekar. K.C: Banking Theory Law and Practice, Vikas Publication.
11. S. Vipradas & j. K Syan: Bank Lending
12. Gajendra & Poddar : Law and Practice of Banking
13. Dr. Alice Mani: Banking Law and Operation, SBH.

2.6 QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS-I

OBJECTIVE

The objective is to provide basic knowledge of statistics and their application to business situations.

Unit 1: INTRODUCTION TO STATISTICS

03Hrs

Meaning and Definition – Functions – Scope – Limitations.

Unit 2: CLASSIFICATION AND TABULATION OF DATA

08 Hrs

Collection of data - census and sample techniques. Classification of data, preparation of frequency distribution and tabulation of data.

Unit 3: MEASURES OF CENTRAL TENDENCY

20Hrs

Meaning and Definition Types of averages – Arithmetic Mean (Simple and Weighted), Median, Mode (excluding missing frequency problems). Graphical representation of median and mode – Ogive– curve, histogram, smoothed frequency curve and frequency polygon.

Unit 4: MEASURES OF DISPERSION AND SKEWNESS

15 hrs

Meaning & Definition -Range, Quartile Deviation, Mean Deviation Standard Deviation and Co-efficient of Variation. Skewness: Meaning, uses, and problems on Karl Pearson's' Co-efficient of skewness.

Unit 5: INDEX NUMBERS

10 Hrs

Meaning & Definition – Uses – Classification – Construction of Index Numbers – Methods of constructing Index Numbers – Simple Aggregative Method – Simple Average of Price Relative Method – Weighted index method – Fisher's Ideal method (including TRT & FRT) – Consumer Price Index – Problems.

SKILL DEVELOPMENT

- Draw a blank table showing different attributes
- Collect marks scored 50 students in a examinations and prepare a frequency distributions table
- Collect data relating to prices of shares of two companies for ten days and ascertain which companies shares prices is more stable
- Collect the run scored by the two batsmen in ten one day international cricket matches, find who is better run getter and who more consistence.
- Select 10 items of daily-consumed products and collect base year quantity, base year price and current year price. Calculate Cost of Living Index.

BOOKS FOR REFERENCE

1. Anand Sharma : Statistics For Management, HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. D.P Apte ; Statistical Tools for Managers.
4. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
5. S.C Gupta: Business Statistics, HPH
6. N.V.R Naidu : Operation Research I.K. International Publishers
7. Ellahance : Statistical Methods, Kitab Mehel.
8. Sanchethi and Kapoor: Business Mathematics, Sultan Chand
9. Veerachamy: Operation Research I.K. International Publishers
10. S. Jayashankar: Quantitative Techniques for Management.
11. Chikoddi & Satya Prasad : Quantitative Analysis for Business Decision, HPH
12. Dr. Alice Mani: Quantitative Analysis for Business Decisions - I, SBH.

3.3 CORPORATE ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to have a comprehensive awareness about the provisions of the Company's Act and Corporate Accounts.

Unit 1: UNDERWRITING OF SHARES

08 Hrs

Meaning – Underwriting Commission – Underwriter – functions - Advantages of Underwriting, Types of Underwriting – Marked and Unmarked Applications – Problems (Excluding Journal entries).

Unit 2: PROFIT PRIOR TO INCORPORATION

12 Hrs

Meaning – calculation of sales ratio – time ratio – weighted ratio – treatment of capital and revenue expenditure – Ascertainment of pre-incorporation and post-incorporation profits by preparing Profit and Loss Account and Balance Sheet.

Unit 3: VALUATION OF GOODWILL

08 Hrs

Meaning – Circumstances of Valuation of Goodwill – Factors influencing the value of Goodwill – Methods of Valuation of Goodwill: Average Profit Method, Super Profit Method, Capitalization of average Profit Method, Capitalization of Super Profit Method, and Annuity Method - Problems.

Unit 4: VALUATION OF SHARES

08 Hrs

Meaning – Need for Valuation – Factors Affecting Valuation – Methods of Valuation: Intrinsic Value Method, Yield Method, Earning Capacity Method, Fair Value of shares. Rights Issue and Valuation of Rights Issue - Problems.

Unit 5: COMPANY FINAL ACCOUNTS

20 Hrs

Statutory Provisions regarding preparation of Company Final Accounts –Treatment of Special Items – Tax deducted at source – Advance payment of Tax – Provision for Tax – Depreciation – Interest on debentures – Dividends – Rules regarding payment of dividends – Transfer to Reserves – Preparation of Profit and Loss Account and Balance Sheet in vertical form (As per 2011 revised format)

SKILL DEVELOPMENT

- Collect and fill the share application form of a limited Company.
- Collect Prospectus of a company and identify its salient features.
- Collect annual report of a Company and List out its assets and Liabilities.
- Collection of latest final accounts of a company and find out the intrinsic value of shares
- Collect the annual reports of company and calculate the value of goodwill under different methods

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting –II
2. Anil Kumar – Financial Accounting, HPH
3. Dr. S.N. Maheswari, Financial Accounting.
4. Soundarajan. A & K. Venkataramana, Corporate Accounting, VBH.
5. S. P. Jain and K. L. Narang – Corporate Accounting
6. S. Bhat- Corporate Accounting.
7. S P Iyengar, Advanced Accountancy, Sultan Chand
8. R L Gupta, Advanced Accountancy.
9. Shukla and Grewal – Financial Accounting.

3.4 FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to enable students to understand the basic concepts of Financial Management and the role of Financial Management in decision-making.

Unit 1: INTRODUCTION FINANCIAL MANAGEMENT

10 Hrs

Introduction – Meaning of Finance – Business Finance – Finance Function – Aims of Finance Function – Organization structure of Finance Department - Financial Management – Goals of Financial Management – Financial Decisions – Role of a Financial Manager – Financial Planning – Steps in Financial Planning – Principles of Sound Financial Planning – Factors influencing a sound financial plan.

Unit 2: TIME VALUE OF MONEY

12 Hrs

Introduction – Meaning & Definition – Need – Future Value (Single Flow – Uneven Flow & Annuity) – Present Value (Single Flow – Uneven Flow & Annuity) – Doubling Period – Concept of Valuation: Valuation of Bonds, Debentures and shares - Simple Problems.

Unit 3: FINANCING DECISION

12 Hrs

Introduction – Meaning of Capital Structure – Factors influencing Capital Structure – Optimum Capital Structure – Computation & Analysis of EBIT, EBT, EPS – Leverages. Simple Problems.

Unit 4: INVESTMENT & DIVIDEND DECISION

16 Hrs

Investment Decision: Introduction – Meaning and Definition of Capital Budgeting – Features – Significance – Process – Techniques: Payback Period, Accounting Rate of Return, Net Present Value, Internal Rate of Return and profitability index Simple Problems. Dividend Decision: Introduction – Meaning and Definition – Determinants of Dividend Policy – Types of Dividends – Bonus share

Unit 5: WORKING CAPITAL MANAGEMENT

06 Hrs

Introduction – Concept of Working Capital – Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital.

SKILL DEVELOPMENT

- Draw the organization chart of Finance Function of a company.
- Evaluate the NPV of an investment made in any one of the capital projects with imaginary figures for 5 years.
- Capital structure analysis of companies in different industries
- Imaginary figures prepare an estimate of working capital requirements

BOOKS FOR REFERENCE

1. S N Maheshwari, Financial Management, Sultan Chand
2. Dr. Aswathanarayana.T – Financial Management, VBH
3. K. Venkataramana, Financial Management, SHBP.
4. G. Sudarshan Reddy, Financial Management, HPH
5. Roy – Financial Management, HPH
6. Khan and Jain, Financial Management, TMH
7. S. Bhat- Financial Management.
8. Sharma and Sashi Gupta, Financial Management, Kalyani Publication.
9. I M Pandey, Financial Management. Vikas Publication.
10. Prasanna Chandra, Financial Management, TMH
11. P.K Simha – Financial Management.
12. M. Gangadhar Rao & Others , Financial management
13. Dr. Alice Mani: Financial Management, SBH.

3.5 BUSINESS ETHICS

OBJECTIVE

The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.

Unit 1: BUSINESS ETHICS 12 Hrs

Introduction – Meaning - Scope – Types of Ethics – Characteristics – Factors influencing Business Ethics – Importance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility – Issues of Management – Crisis Management

Unit 2: PERSONAL ETHICS 12 Hrs

Introduction – Meaning – Emotional Honesty – Virtue of humility – Promote happiness – karma yoga – proactive – flexibility and purity of mind.

Unit 3: ETHICS IN MANAGEMENT 12 Hrs

Introduction – Ethics in HRM – Marketing Ethics – Ethical aspects of Financial Management – Technology Ethics and Professional ethics.

Unit 4: ROLE OF CORPORATE CULTURE IN BUSINESS 12 Hrs

Meaning – Functions – Impact of corporate culture – cross cultural issues in ethics

Unit 5: CORPORATE GOVERNANCE 12 Hrs

Meaning, scope, composition of BODs, Cadbury Committee, various committees, reports on corporate governance, scope of Corporate Governance, Benefits and Limitations of Corporate Governance with living examples.

SKILL DEVELOPMENT

- State the arguments for and against business ethics
- Make a list of unethical aspects of finance in any organization
- List out ethical problems faced by managers
- List out issues involved in Corporate Governance.
- List out unethical aspects of Advertising

BOOKS FOR REFERENCE

1. Murthy CSV: Business Ethics and Corporate Governance, HPH
2. Bholanath Dutta, S.K. Podder – Corporation Governance, VBH.
3. Dr. K. Nirmala, Karunakara Readdy : Business Ethics and Corporate Governance, HPH
4. H.R.Machiraju: Corporate Governance
5. K. Venkataramana, Corporate Governance, SHBP.
6. N.M.Khandelwal : Indian Ethos and Values for Managers
7. S Prabhakaran; Business ethics and Corporate Governance
8. C.V. Baxi: Corporate Governance
9. R. R. Gaur, R. Sanghal, G. P. Bagaria; Human Values and Professional ethics
10. B O B Tricker, Corporate Governance; Principles , Policies and Practices
11. Michael, Blowfield; Corporate Responsibility
12. Andrew Crane; Business Ethics
13. Ghosh; Ethics in Management and Indian ethos.

3.6 QUANTATIVE ANALYSIS FOR BUSINESS DECISIONS-II

OBJECTIVE:

The objective is to familiarize the students with various statistical techniques for their application in Business Decisions.

Unit 1: CORRELATION AND REGRESSION ANALYSIS

20 Hrs

Correlation: Meaning and Definition - Uses – Types – Karl Pearson's coefficient of correlation – probable error - Spearman's Rank Correlation Coefficient. Regression: Meaning, Uses, Regression lines, Regression Equations. Correlation Coefficient through Regression Coefficient

Unit 2: TIME SERIES

12 Hrs

Introduction – Meaning – Uses – Components of Time Series – Fitting a straight line trend by the method of least squares and Computation of Trend Values (when $\sum X = 0$) including Graphical presentation of trend values – Problems.

Unit 3: INTERPOLATION AND EXTRAPOLATION

08 Hrs

Meaning - Significance – Assumptions - Methods of Interpolation – Binomial expansion (Interpolating method one and two missing values only) - Newton's Advancing Differences Method - Problems.

Unit 4: SAMPLING AND SAMPLING DISTRIBUTION

08 Hrs

Meaning, Objectives and Types : Probability Sampling and Non-Probability Sampling Techniques- Meaning of Population, Parameter and Statistic - Sampling distribution – Meaning and usefulness of Standard Error (Simple Problems on calculation of Sample size)

Unit 5: THEORY OF PROBABILITY

08 Hrs

Meaning and Importance of Probability- Experiment, Event and types of events, Addition Theory of probability. (Simple Problems on addition theorem only)

SKILL DEVELOPMENT:

- Collect age statistics of 10 newly married couples and compute correlation coefficient
- Collect age statistics of 10 newly married couples and compute regression equations; Estimate the age of bride when age of bridegroom is given.
- Collect the turnover of a company for 7 years and predict the sales of 8th year by using method of least square.
- Collect the sales or production statistics of a company for five years and extrapolate the production or sales for the 6th Year.

BOOKS FOR REFERENCE:

1. Sridhara Bhatt - Quantitative Techniques for Managers , HPH
2. S P Gupta: Statistical Methods- Sultan Chand, Delhi
3. B. G. Bhaskara & others: Quantitative Analysis for Business Decision II
4. S C Gupta and V K Kapoor, Fundamentals of Mathematical Statistics
5. Sancheti and Kapoor, Sultan Chand
6. S. Jaishankar: Quantitative Techniques for Managers
7. G C Beri, Statistics for Management.

8. Dr. B N Gupta: Statistics (Sahitya Bhavan), Agra.
9. Veerachamy: Operation Research I.K. International Publishers
10. Ellahance : Statistical Methods
11. Quantitative Techniques for Managerial Decisions, U K Srivastava, G V Shenoy,
12. S C Sharama, New Age International Publishers.
13. C.R Reddy , Quantitative Techniques for Management Decisions
14. Dr. Alice Mani: Quantitative Analysis for Business Decisions - II, SBH.

3.7 PUBLIC RELATIONS AND CORPORATE COMMUNICATION

OBJECTIVE

To create awareness among the students on the soft skills required to plan and pursue a career and empower them with employability skills.

Unit 1: ATTITUDE AND EMOTIONAL INTELLIGENCE

10 Hrs

Importance of Attitude – Meaning of Positive Thinking and Positive Attitude – Ways to build positive attitude – Effects of negative attitude and measures to overcome them. Significance of interpersonal relationships in personal and professional life - Tips to enhance interpersonal relationships - Emotional Intelligence.

Unit 2: VISION, GOAL SETTING & TIME MANAGEMENT

06 Hrs

Meaning of Vision – Doing things for the right purpose – Setting and achieving goals – Importance of goal setting – periodicity in goal setting – short, medium, long-term – methods to achieve set goals. General principles of Stress Management and Time Management.

Unit 3: CREATIVITY

10 Hrs

The creative mind – Importance of Creativity – Elements of Creativity – Influence and Flexibility – Factors influencing creativity – Methods of enhancing creativity – techniques of creativity – Brainstorming, attributes listing.

Unit 4: COMMUNICATION SKILLS

10 Hrs

Significance – Process of Communication – Forms of Communication - Communication Gap – Listening Skills – Basics of Managerial Speaking Skills – Body Language – How to develop matter for a speech, Presentation aids and effective use of presentation aids. Preparation of Resume & preparation for GD & Interview.

Unit 5: CAREER PLANNING

06Hrs

Career Planning, Awareness of different Careers, Sources of Information, Choosing a Career and Career counseling.

SKILL DEVELOPMENT:

- Extempore speeches, Just a Minute.
- Conducting Stress Interviews.
- Creative Exercise
- Role play.

BOOKS FOR REFERENCE:

1. C.S. Raydu – Corporate Communication, HPH
2. Rai & Rai Business Communication, HPH
3. S.P. Sharman, Bhavani H. – Corporate Communication, VBH
4. Collins: Public Speaking
5. Mair : Art of Public Speaking
6. K. Venkataramana, Corporate Communication, SHBP.
7. Rajkumar: Basic of Business Communication
8. V.N. Ahuja.: The World's Famous Speeches
9. Daniel Goleman : Emotional Intelligence
10. Jyotsna Codety :Understanding Emotional Intelligence .

11. Dalip Singh :Emotional Intelligence at Work .
12. B. Das / I Satpathy: Business Communication & Personality Development.
13. B.Husluck :Personality Development – Elizabeth.
14. M.S. Rao: Soft Skills – Enhancing Employability I.K. International Publishers
15. Allen Bease :Body Language .
16. Tanushree Pooder :Fit and Fine Body and Mind
17. C.G.G Krishnamacharyulu & Lalitha :Soft Skills of Personality Development;
18. Partho Pratim Roy :Business Communications – The Basics
19. Sajitha Jayaprakash :Technical Communication

4.3 ADVANCED CORPORATE ACCOUNTING

OBJECTIVE

The objective is to enable the students to develop awareness about Corporate Accounting in conformity with the Provision of Companies' Act and latest amendments thereto with adoption of Accounting Standards.

Unit 1: REDEMPTION OF PREFERENCE SHARES

10 Hrs

Meaning – legal provisions – treatment regarding premium on redemption – creation of Capital Redemption Reserve Account– Fresh issue of shares – Arranging for cash balance for the purpose of redemption – minimum number of shares to be issued for redemption – issue of bonus shares – preparation of Balance sheet (vertical forms) after redemption.

Unit 2: MERGERS AND ACQUISITION OF COMPANIES

16 Hrs

Meaning of Amalgamation and Acquisition – Types of Amalgamation – Amalgamation in the nature of Merger – Amalgamation in the nature of Purchase - Methods of Purchase Consideration – Calculation of Purchase Consideration (Ind AS 103) (Old AS14), Net asset Method - Net Payment Method, Accounting for Amalgamation (Problems on both the methods) - Entries and Ledger Accounts in the Books of Transferor Company and Transferee Company – Preparation of new Balance sheet. (Vertical Format) (Excluding External Reconstruction).

Unit 3: INTERNAL RECONSTRUCTION

10 Hrs

Meaning – Objective – Procedure – Form of Reduction –Passing of Journal Entries – Preparation of Reconstruction accounts – Preparation of Balance Sheet after Reconstruction. (Vertical Format) Problems.

Unit 4: LIQUIDATION OF COMPANIES

10Hrs

Meaning–Types of Liquidation – Order of Payment - Calculation of Liquidator's Remuneration – Preparation of Liquidators Final Statement of Account.

Unit 5: RECENT DEVELOPMENTS IN ACCOUNTING & ACCOUNTING STANDARDS

(Theory Only)

10Hrs

Human Resource Accounting – Environmental Accounting – Social Responsibility Accounting – Valuation of Brand.

Indian Accounting Standards- Meaning- Need for accounting standards in India- Accounting standards Board (ASB) process of setting accounting standards in India- A brief theoretical study of Indian accounting standards.

SKILL DEVELOPMENT

- List out legal provisions in respect of Redemption of Preference shares.
- Calculation of Purchase consideration with imaginary figures.
- List any 5 cases of amalgamation in the nature of merger or acquisition of Joint Stock Companies.
- List out legal provisions in respect of internal reconstruction.
- List out any five Indian Accounting Standards disclosures.

BOOKS FOR REFERENCE

1. Arulanandam & Raman ; Corporate Accounting-II, HPH
2. Anil Kumar – Advanced Corporate Accounting, HPH
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. Dr. Venkataraman. R – Advanced Corporate Accounting
5. S.N. Maheswari , Financial Accounting, Vikas
6. Soundarajan A & K. Venkataramana, Advanced Corporate Accounting, SHBP.
7. RL Gupta, Advanced Accountancy, Sultan Chand
8. K.K Verma – Corporate Accounting.
9. Jain and Narang, Corporate Accounting.
10. Tulsian, Advanced Accounting,
11. Shukla and Grewal – Advanced Accountancy , Sultan Chand
12. Srinivas Putty, Advanced Corporate Accounting, HPH.
13. Sreeram & Sreeram, Advanced Corporate Accounting, Adhrash Publishing House.

4.4 COST ACCOUNTING

OBJECTIVE

The objective of this subject is to familiarize students with the various concepts and elements of cost.

Unit 1: INTRODUCTION TO COST ACCOUNTING

10 Hrs

Introduction – Meaning & Definition of Cost, Costing and Cost Accounting – Objectives of Costing - Comparison between Financial Accounting and Cost Accounting – Designing and Installing a Cost Accounting System – Cost Concepts - Classification of Costs – Cost Unit – Cost Center – Elements of Cost – Preparation of Cost Sheet – Tenders and Quotations.

Unit 2: MATERIAL COST CONTROL

14 Hrs

Meaning – Types: Direct Material, Indirect Material. Material Control – Purchasing Procedure – Store Keeping – Techniques of Inventory Control – Levels settings – EOQ – ABC Analysis – VED Analysis – Just In-Time – Perpetual Inventory System – Documents used in Material Accounting - Methods of Pricing Material Issues: FIFO, LIFO, Weighted Average Price Method and Simple Average Price Method - Problems.

Unit 3: LABOUR COST CONTROL

10 Hrs

Meaning – Types: Direct Labour, Indirect Labour - Timekeeping – Time booking – Idle Time – Overtime – Labour Turn Over. Methods of Labour Remuneration: Time Rate System, Piece Rate System, Incentive Systems (Halsey plan, Rowan Plan & Taylor's differential Piece Rate System) – Problems

Unit 4: OVERHEAD COST CONTROL

14 Hrs

Meaning and Definition – Classification of Overheads – Procedure for Accounting and Control of Overheads – Allocation of Overheads – Apportionment of Overheads – Primary Overhead Distribution Summary – Secondary Overhead Distribution Summary – Repeated Distribution Method and Simultaneous Equations Method – Absorption of Factory Overheads – Methods of Absorption (Theory Only) – Machine Hour Rate – Problems on Machine Hour Rate.

Unit 5: RECONCILIATION OF COST AND FINANCIAL ACCOUNTS

08 Hrs

Need for Reconciliation – Reasons for differences in Profit or Loss shown by Cost Accounts and Profit or Loss shown by Financial Accounts – Preparation of Reconciliation Statement and Memorandum Reconciliation Account.

SKILL DEVELOPMENT

- Identification of elements of cost in services sector by Visiting any service sector.
- Cost estimation for the making of a proposed product.
- Draft the specimen of any two documents used in material account.
- Collection and Classification of overheads in an organization on the basis of functions.
- Prepare a reconciliation statement with imaginary figures

BOOKS FOR REFERENCE

1. J. Made Gowda – Cost and Management Accounting , HPH
2. M.V. Skukla – Cost and Management Accounting
3. N.K. Prasad: Cost Accounting, Books Syndicate Pvt. Ltd.
4. Nigam & Sharma: Cost Accounting , HPH
5. Khanna Pandey & Ahuja – Practical Costing, S Chand
6. Soundarajan A & K. Venkataramana, Cost Accounting, SHBP.

7. P. K Sinha – Accounting & Costing for Managers.
8. M.L. Agarwal: Cost Accounting
9. Dr. Alice Mani: Cost Accounting, SBH.
10. S.P Jain & Narang: Cost Accounting , Kalyani
11. Palaniappan and Hariharan : Cost Accounting I.K. International Publishers
12. S.P. Iyengar: Cost Accounting, Sultan Chand ans Sons
13. S.N. Maheshwari: Cost Accounting, Vikas
14. M. N. Arora: Cost Accounting, HPH
15. Dutta: Cost Accounting
16. V. Rajesh Kumar & R.K. Sreekantha, Cost Accounting – I, Vittam Publications.

4.5 E-BUSINESS AND ACCOUNTING

OBJECTIVE:

The objective of the subject is to familiarize the students with E- Commerce models and Tally

UNIT 1. E-BUSINESS

10 Hrs

Introduction, E-Commerce – Definition, History of E-commerce, Difference between E - Commerce and E - Business. Comparison of traditional commerce and e-commerce Advantages/ Disadvantages of e-commerce,. E-Commerce business models – major B to B, B to C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model – emerging trends. web auctions, virtual communities, portals, e-business revenue models.

UNIT 2. HARDWARE AND SOFTWARE FOR E-BUSINESS

10Hrs

Web server – Internet – World Wide Web - hardware and software for web servers, web hosting choices – shopping cart.

Unit 3: GETTING STARTED WITH TALLY

10Hrs

Meaning of Tally software – Features – Advantages - Required Hardware, Preparation for installation of tally software - installation. Items on Tally screen: Menu options, creating a New Company, Basic Currency information, Other information, Company features and Inventory features.

Unit 4: CONFIGURING TALLY

16Hrs

General Configuration, Numerical symbols, accts/inv info – master configuration -voucher entry configuration. **Working in Tally:** Groups, Ledgers, writing voucher, different types of voucher, voucher entry Problem on Voucher entry -Trail Balance, Accounts books, Cash Book, Bank Books, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Journal Register, Statement of Accounts, & Balance Sheet.

Unit 5: REPORTS IN TALLY:

10Hrs

Generating Basic Reports in Tally – Financial Statements – Accounting Books and Registers – Inventory Books and Registers – Exception reports – printing reports – Types of Printing Configuration of Options – Printing Format.

SKILL DEVELOPMENT:

- Generating the report of journal
- Generating the report on cash book
- Generating the report on profit and losing account
- Generating the report on balance sheet

BOOKS FOR REFERENCE

1. Raydu – E Commerce, HPH
2. Suman. M – E Commerc & Accounting - HPH
3. Kalakota Ravi and A. B. Whinston : *Frontiers of Electronic Commerce*, Addison Wesley
4. Watson R T : *Electronic Commerce – the strategic perspective*. The Dryden press
5. Amrutha Gowry & Soundrajana, E – Business & Accounting, SHBP.
6. C.S.V Murthy- E Commerce, HPH
7. Agarwala K.N and Deeksha Ararwala: *Business on the Net – Whats and Hows of E-Commerce*
8. Agarwala K. N. and Deeksha Ararwala : *Business on the Net – Bridge to the online store front*, Macmillan, New Delhi.
9. P. Diwan / S. Sharma – E – Commerce
10. Srivatsava: E.R.P, I.K. International Publishers
11. Diwan, Prag and Sunil Sharma, *Electronic Commerce – A manager guide to E-business*, Vanity Books International, Delhi
12. Tally for Enterprise Solutions

4.6. STOCK AND COMMODITY MARKETS

OBJECTIVE:

The objective is to provide students with a conceptual framework of stock markets and Commodity Markets, functionalities in these markets and their mode of trading.

Unit: 1 AN OVERVIEW OF CAPITAL AND COMMODITIES MARKETS: 10 Hrs

Primary Market, Secondary Market (Stock Market), Depositories, Private placements of shares / Buy back of shares, Issue mechanism. Meaning of Commodities and Commodities Market, differences between stock market and commodities market.

Unit: 2 STOCK MARKET: 12Hrs

History, Membership, Organization, Governing body, Functions of stock Exchange, on line trading, role of SEBI, Recognized Stock Exchanges in India (brief discussion of NSE and BSE). Derivatives on stocks: Meaning, types (in brief).

Unit:3 TRADING IN STOCK MARKET: 14Hrs

Patterns of Trading & Settlement – Speculations – Types of Speculations – Activities of Brokers – Broker Charges – Settlement Procedure, National Securities Depository Ltd.(NSDL), Central Securities Depository Ltd.(CSDL) (in brief).

Unit: 4 COMMODITIES MARKET: 12Hrs

History, Membership, Objectives, Functions of commodities exchange, Organization and role of commodity exchange, Governing Body, Types of Transactions to be dealt in Commodity Market – physical market, Futures market - Differences between Physical & Future Market, options on commodities exchanges.

Unit: 5 TRADING IN COMMODITY MARKETS: 08Hrs

Patterns of Trading & Settlement, Efficiency of Commodity Markets - Size of volumes of Commodities

SKILL DEVELOPMENT

- Prepare the list of recognized stock exchanges in India
- Prepare the process chart of online trading of shares and debentures.
- Prepare the chart showing Governing Body of the Commodities Market.
- Prepare the list of commodities traded on commodity market.
- Enlist the role of NSDL and CSDL.

BOOKS FOR REFERENCE:

1. Gurusamy, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
2. Saunders, Financial Markets and Institutions, 3rd edition, Tata McGraw Hill.
3. K. Venkataramana, Stock & Commodity Markets, SHBP.
4. B. Kulkarni – Commodity Markets & Derivatives.
5. Khan, Indian Financial Systems, 6th edition, Tata McGraw Hill
6. Bhole, L.M. (2000), Indian Financial Institutions, Markets and Management, McGraw Hill, New York.
7. Srivastava R.M ; Management of Indian Financial Institutions
8. Pallavi Modi : Equity – The Next Investment Destination
9. Prisswami – Indian Financial System
10. Ghowria Khatoon – Stock & Commodity Markets, VBH.

4.7 PRINCIPLES OF EVENT MANAGEMENT

OBJECTIVE:

The objective is to provide students with a conceptual framework of Event Management, Event Services, Conducting Event and Managing Public Relations.

Unit: 1- INTRODUCTION TO EVENT MANAGEMENT

12 Hrs

Event- Meaning- Why Event Management- Analysis of Event, Scope of Event, Decision Makers- Event Manager Technical Staff- Establishing of Policies & Procedure- Developing Record Keeping Systems.

Unit: 2-EVENT MANAGEMENT PROCEDURE

12 Hrs

Principles for holding an Event, General Details, Permissions- Policies, Government and Local Authorities, - Phonographic Performance License, Utilities- Five Bridge Ambulance Catering, Electricity, Water Taxes Applicable.

Unit: 3-CONDUCT OF AN EVENT.

12 Hrs

Preparing a Planning Schedule, Organizing Tables, Assigning Responsibility, Communication and Budget of Event- Checklist, Computer aided Event Management– Roles & Responsibilities of Event Managers for Different Events.

Unit: 4-PUBLIC RELATIONS

10 Hrs

Introductions to Public Relations- Concept- Nature- Importance- Limitations- Media- Types of Media- Media Management, Public Relation Strategy & Planning. Brain Storming Sessions- Writings for Public Relations.

Unit: 5 CORPORATE EVENTS

10 Hrs

Planning of Corporate Event, Job Responsibility of Corporate Events Organizer, Arrangements, Budgeting, Safety of Guests and Participants, Creating Blue Print, Need for Entertainment in Corporate Events And Reporting.

Skill Development

1. Preparation of Event Plan for Wedding, Annual general body Meeting of an MNC.
2. Preparing Budget for conduct of National level intercollegiate sports events.
3. Preparation of Event Plan for College day Celebrations
4. Preparation of Budget for Conducting inter collegiate Commerce Fest.

Book References

1. Event Entertainment and Production – Author: Mark Sonderm CSEP Publisher: Wiley & Sons, Inc.
2. Ghose Basha – Advertising & Media Mgt, VBH.
3. Anne Stephen – Event Management, HPH.
4. K. Venkataramana, Event Management, SHBP.
5. Special Event Production – Doug Matthews – ISBN 978-0-7506-8523-8
6. The Complete Guide to successful Event Planning – Shannon Kilkenny
7. Human Resource Management for Events – Lynn Van der Wagen (Author)
8. Successful Team Management (Paperback) – Nick Hayed (Author)
9. Event Management & Public Relations by Savita Mohan – Enkay Publishing House
10. Event Management & Public Relations By Swarup K. Goyal – Adhyayan Publisher - 2009

5.1 ENTREPRENEURSHIP DEVELOPMENT

OBJECTIVE:

To enable students to understand the basic concepts of entrepreneurship and preparing a business plan to start a small industry.

Unit 1: ENTREPRENEURSHIP

10 Hrs

Introduction – Meaning & Definition of Entrepreneurship, Entrepreneur & Enterprise – Functions of Entrepreneur - Factors influencing Entrepreneurship - Pros and Cons of being an Entrepreneur – Qualities of an Entrepreneur – Types of Entrepreneur

Unit 2: SMALL SCALE INDUSTRIES

12 Hrs

Meaning & Definition – Product Range - Capital Investment - Ownership Patterns – Meaning and importance of Tiny Industries, Ancillary Industries, Cottage Industries. Role played by SSI in the development of Indian Economy. Problems faced by SSI's and the steps taken to solve the problems - Policies Governing SSI's.

Unit 3: FORMATION OF SMALL SCALE INDUSTRY

14 Hrs

Business opportunity, scanning the environment for opportunities, evaluation of alternatives and selection based on personal competencies. Steps involved in the formation of a small business venture: location, clearances and permits required, formalities, licensing and registration procedure. Assessment of the market for the proposed project – Financial, Technical, Market and Social feasibility study.

Unit 4: PREPARING THE BUSINESS PLAN (BP)

10 Hrs

Meaning – importance – preparation – BP format: Financial aspects of the BP, Marketing aspects of the BP, Human Resource aspects of the BP, Technical aspects of the BP, Social aspects of the BP. Common pitfalls to be avoided in preparation of a BP.

Unit 5: PROJECT ASSISTANCE

10 Hrs

Financial assistance through SFC's, SIDBI, Commercial Banks, IFCI - Non-financial assistance from DIC, SISI, AWAKE, KVIC - Financial incentives for SSI's and Tax Concessions - Assistance for obtaining Raw Material, Machinery, Land and Building and Technical Assistance - Industrial Estates: Role and Types.

SKILL DEVELOPMENT

- Preparation of a Project report to start a SSI Unit.
- Preparing a letter to the concerned authority-seeking license for the proposed SS Unit
- Format of a business plan.
- A Report on the survey of SSI units in the region where college is located.
- Chart showing financial assistance available to SSI along with rates of interest.
- Chart showing tax concessions to SSI both direct and indirect.
- Success stories of Entrepreneurs in the region.

BOOKS FOR REFERENCE

1. Vasanth Desai, Management of Small Scale Industry, HPH
2. Mark. J. Dollinger, Entrepreneurship – Strategies and Resources, Pearson Edition.
3. Dr. Venkataramana ; Entrepreneurial Development, SHB Publications

4. Udai Pareek and T.V. Rao, Developing Entrepreneurship
5. Rekha & Vibha – Entrepreneurship Development, VBH
6. S.V.S. Sharma, Developing Entrepreneurship, Issues and Problems
7. B. Janakiraman , Rizwana M: Entrepreneurship Development, Excel Books
8. Srivastava, A Practical Guide to Industrial Entrepreneurs
9. Anil Kumar: Small Business and Entrepreneurship I.K. International Publishers
10. Government of India, Report of the committee on Development of small and medium entrepreneurs, 1975
11. Bharusali, Entrepreneur Development
12. Satish Taneja ; Entrepreneur Development
13. Vidya Hattangadi ; Entrepreneurship
14. N.V.R Naidu : Entrepreneurship Development, I.K. International Publishers

5.2 INTERNATIONAL FINANCIAL REPORTING STANDARDS

OBJECTIVE: The objective of the subject is to enable the students to understand the need and method of presentation of financial statements in accordance with International Financial Reporting Standards.

Unit-I **5Hrs**

International Financial Reporting Standards:

Meaning of IFRS - relevance of IFRS to India; merits and limitations of IFRS; process of setting IFRS- Practical challenges in implementing IFRS; a brief theoretical study of International financial reporting standards (IFRS) 1 – 15 - List of International accounting standards issued by IASB.

Unit – II **25Hrs**

Accounting for Assets and Liabilities

Recognition criteria's for Investment properties, Government grants, Borrowing costs, Construction contracts, share based payments, Provisions, Contingent liabilities and Contingent assets, Events occurring after the reporting period (**Only Theory**).

Recognition and measurement for property plant and equipment, Intangible assets, Inventories, Leases and Impairment. Accounting for Income tax, Employee benefits. - **Simple problems**

Unit-III **8Hrs**

Presentation of Financial Statements:

Outline for the preparation of financial statements - Statement of financial position; Comprehensive income statement; Statement of changes in equity (SOCE), IAS 18 – Revenue.

Elements of financial statements as per IFRS – Non-current assets; current assets; equity; non-current liability; current liability; revenue; cost of sales; distribution costs; administrative expenses; financial costs – profits attributable to owners of controlling interest and non-controlling interest – **Practical problems on each element.**

Unit – IV **12Hrs**

Accounts of Groups:

Concept of group – need for consolidated financial statements - Preparation of consolidated financial statements – Procedure for the preparation of consolidated financial position statement – treatment of pre-acquisition profit; goodwill arising on consolidation; on-controlling interests at fair value – **Practical problems.**

Unit – V **6Hrs**

Disclosure Standards

Related party disclosure, Earnings per share, Interim financial reporting, Insurance contracts, Operating segments. (**Theory Only**).

SKILL DEVELOPMENT

- 1) Conversion of final accounts to IFRS
- 2) Analysis of published financial statements for at-least 2 types of stakeholders
- 3) Comments for recent developments/exposure draft in IFRS
- 4) Preparation of notes to accounts for non-current assets
- 5) Assignment on social reporting
- 6) Preparation of Consolidated Financial Statement of any two existing companies.
- 7) Disclosure of change in equity in the annual reports of any two select companies.

Books for reference:

1. IFRS – Student Study Guide - ISDC
2. IFRS for India, Dr.A.L.Saini, Snow white publications
3. Roadmap to IFRS and Indian Accounting Standards by CA Shibarama Tripathy
4. IFRS explained – a guide to IFRS by BPP learning Media
5. IFRS concepts and applications by Kamal Garg, Bharath law house private limited.
6. IFRS: A quick reference guide by Robert J Kirk, Elsevier Ltd.

5.3 INCOME TAX - I

OBJECTIVE

The Objective of this subject is to expose the students to the various provisions of Income Tax Act 1961 relating to computation of Income of individuals.

Unit 1: INTRODUCTION TO INCOME TAX

10 Hrs

Brief History of Indian Income Tax - Legal Frame Work – Types of Taxes - Cannons of Taxation – Important Definitions: Assessment, Assessment Year, Previous Year (including Exceptions), Assessee, Person, Income, Casual Income, Gross Total Income, Agricultural Income (including Scheme of Partial Integration – Theory Only) – Scheme of taxation. Meaning and classification of Capital & Revenue. Income tax authorities: Powers & functions of CBDT, CIT & A.O.

Unit 2: EXEMPTED INCOMES

04 Hrs

Introduction – Exempted Incomes U/S 10 - Restricted to Individual Assessee.

Unit 2: RESIDENTIAL STATUS

10 Hrs

Residential Status of an Individual –Determination of Residential Status – Incidence of Tax – Problems.

Unit 4: INCOME FROM SALARY

20 Hrs

Meaning – Definition - Basis of Charge– Advance Salary – Arrears of Salary – Allowances – Perquisites– Provident Fund - Profits in Lieu of Salary – Gratuity -Commutation of Pension - Encashment of Earned leave - Compensation for voluntary retirement - Deductions from Salary U/S 16 – Problems on Income from Salary.

Unit 5: INCOME FROM HOUSE PROPERTY

12 Hrs

Basis of Charge – Deemed Owners – Exempted Incomes from House Property –Composite Rent - Annual Value – Determination of Annual Value – Treatment of Unrealized Rent – Loss due to Vacancy – Deductions from Annual Value – Problems on Income from House Property.

SKILL DEVELOPMENT

- Form No. 49A (PAN) and 49B.
- Filling of Income Tax Returns.
- List of enclosures to be made along with IT returns (with reference to salary & H.P).
- Preparation of Form 16.
- Computation of Income Tax and the Slab Rates.
- Computation of Gratuity.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dr. Mehrotra and Dr. Goyal: Direct Taxes – Law and Practice, Sahitya Bhavan Publication.
4. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
5. Gaur & Narang: Income Tax.
6. 7 Lectures – Income Tax – I, VBH
7. Dr.V.Rajesh Kumar and Dr.R.K.Sreekantha: Income Tax – I, Vittam Publications.

5.4 COSTING METHODS

OBJECTIVE

To familiarize the students on the use of cost accounting system in different nature of businesses.

Unit 1: INTRODUCTION TO COSTING METHODS **04 Hrs**

Costing methods – Meaning, Importance and Categories.

Unit 2: JOB AND BATCH COSTING **12 Hrs**

Job costing: Meaning, prerequisites, job costing procedures, Features, objectives, applications, advantages and disadvantages of Job costing. **Batch costing:** Meaning, advantages, disadvantages, determination of economic batch quantity. Comparison between Job and Batch Costing – problems.

Unit 3: PROCESS COSTING **14 Hrs**

Introduction, meaning and definition, Features of Process Costing, applications, comparison between Job costing and Process Costing, advantages and disadvantages, treatment of normal loss, abnormal loss and abnormal gain, rejects and rectification - Joint and by-products costing – problems under reverse cost method.

Unit 4: CONTRACT COSTING **14 Hrs**

Meaning, features of contract costing, Applications of contract costing, similarities and dissimilarities between job and contract costing, procedure of contract costing, profit on incomplete contracts, Problems.

Unit 5: OPERATING COSTING **12 Hrs**

Introduction, Meaning and application of Operating Costing, - Power house costing or boiler house costing, canteen or hotel costing, hospital costing (Theory only) and Transport Costing – Problems on Transport costing.

SKILL DEVELOPMENT

- Listing of industries located in your area and methods of costing adopted by them
- List out materials used in any two organizations.
- Preparation of Imaginary composite job cost statement
- Preparation of activity base cost statement

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. Nigam and Sharma, Advanced Costing.
3. B.S. Raman, Cost Accounting.
4. K.S Thakur- Cost Accounting
5. M.N. Arora, Cost Accounting.
6. Ashish K Bhattacharyya: cost accounting for business managers.
7. N. Prasad, Costing.
8. Palaniappan and Hariharan : Cost Accounting, I.K. International Publishers
9. Jain & Narang, Cost Accounting
10. Ravi M. Kishore – *Cost Management*
11. Charles T Horngren, George Foster, Srikant M. Data – *Cost Accounting: A Managerial Emphasis*
12. Anthony R. N. – *Management Accounting Principles*
13. S. Mukherjee & A. P. Roychowdhury – *Advanced Cost and Management Accountancy*
14. J. Made Gowda Cost Accounting
15. Rathnam : Cost Accounting

6.1 BUSINESS REGULATIONS

OBJECTIVE:

To introduce the students to various Business Regulations and familiarize them with common issues of relevance.

UNIT 1: INTRODUCTION TO BUSINESS LAWS

06 Hrs

Introduction, Nature of Law, Meaning and Definition of Business Laws, Scope and Sources of Business Laws.

UNIT 2: CONTRACT LAWS

18Hrs

Indian Contract Act, 1872: Definition of Contract, essentials of a valid contract, classification of contracts, remedies for breach of contract.

Indian Sale of Goods Act, 1930: Definition of contract of sale, essentials of contract of sale, conditions and warranties, rights and duties of buyer, rights of an unpaid seller.

UNIT 3: COMPETITION AND CONSUMER LAWS:

14 Hrs

The Competition Act, 2002: Objectives of Competition Act, Features of Competition Act, CAT, offences and penalties under the Act, Competition Commission of India.

Consumer Protection Act, 1986: Definition of the terms consumer, consumer dispute, defect, deficiency, unfair trade practices and services. Rights of the consumer under the Act, Consumer Redressal Agencies – District Forum, State Commission, National Commission.

UNIT 4: ECONOMIC LAWS

12 Hrs

Indian Patent Laws and WTO Patent Rules: Meaning of IPR, invention and non-invention, procedure to get patent, restoration and surrender of lapsed patent, infringement of patent,

FEMA 1999: Objects of FEMA, salient features of FEMA, definition of important terms: authorized person, currency, foreign currency, foreign exchange, foreign security, offences and penalties.

UNIT 5: ENVIRONMENTAL LAW

06 Hrs

Environment Protection Act, 1986: Objects of the Act, definitions of important terms: environment, environment pollutant, environment pollution, hazardous substance and occupier, types of pollution, rules and powers of central government to protect environment in India.

SKILL DEVELOPMENT

- Prepare a chart showing sources of business law and Indian Constitution Articles having economic significance.
- Draft an agreement on behalf of an MNC to purchase raw materials indicating therein terms and conditions and all the essentials of a valid contract.
- Draft an application to the Chief Information Officer of any government office seeking information about government spending.
- Draft digital signature certificate.
- Draft a complaint to District Consumer Forum on the deficiency of service in a reputed corporate hospital for medical negligence.
- Collect leading cyber-crimes cases and form groups in the class room and conduct group discussion.
- Draft a constructive and innovative suggestions note on global warming reduction.

BOOKS FOR REFERENCE:

1. K. Aswathappa, Business Laws, HPH,
2. Bulchandni, Business Laws, HPH.
3. K. Venkataramana, Business Regulations, SHBP.
4. Kamakshi P & Srikumari P – Business Regulations, VBH.
5. N.D. Kapoor, Business Laws, Sultan chand publications.
6. S.S Gulshan – Business Law
7. S.C. Sharma: Business Law I.K. International Publishers
8. Tulsion Business Law, TMH.

6.2 PRINCIPLES AND PRACTICE OF AUDITING

OBJECTIVE:

This subject aims at imparting knowledge about the principles and methods of auditing and their applications.

Unit 1: INTRODUCTION TO AUDITING

12 Hrs

Introduction – Meaning - Definition – Objectives – Differences between Accountancy and Auditing – Types of Audit - Advantages of Auditing – Preparation before commencement of new Audit – Audit Notebook – Audit Working Papers – Audit Program, Recent Trends in Auditing: Nature & Significance of Tax Audit – Cost Audit - Management Audit.

Unit 2: INTERNAL CONTROL

10 Hrs

Internal Control: Meaning and objectives. Internal Check: Meaning, objectives and fundamental principles. Internal Check as regards: Wage Payments, Cash Sales, Cash Purchases. Internal Audit: Meaning - Advantages and Disadvantages of Internal Audit – Differences between Internal Check and Internal Audit.

Unit 3: VOUCHING

12 Hrs

Meaning - Definition – Importance – Routine Checking and Vouching – Voucher -Types of Vouchers – Vouching of Receipts: Cash Sales, Receipts from debtors, Proceeds of the sale of Investments. Vouching of Payments: Cash Purchases, Payment to Creditors, Deferred Revenue Expenditure.

Unit 4: VERIFICATION AND VALUATION OF ASSETS AND LIABILITIES

12 Hrs

Meaning and Objectives of verification and valuation– Position of an Auditor as regards the Valuation of Assets – Verification and Valuation of different Items: Assets: Land & Building, Plant & Machinery, Goodwill – Investments - Stock in Trade. Liabilities: Bills Payable - Sundry Creditors – Contingent Liabilities.

Unit 5: AUDIT OF LIMITED COMPANIES AND OTHERS

10 Hrs

Company Auditor – Appointment – Qualification - Powers - Duties and Liabilities – Professional Ethics of an Auditor. Audit of Educational Institutions – Audit of Insurance Companies- Audit of Co-operative societies.

SKILL DEVELOPMENT:

- Collect the information about types of audit conducted in any one Organization
- Visit an audit firm, write about the procedure followed by them in Auditing the books of accounts of a firm.
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset.
- Draft an audit program.

BOOKS FOR REFERENCE:

1. P N Reddy & Appannaiah, Auditing, HPH
2. TR Sharma, Auditing, Sahitya Bhavan
3. BN Tandon, Practical Auditing, Sultan Chand
4. Dr. Nanje Gowda, Principles of Auditing, VBH
5. Dr. Alice Mani: Principles & Practices of Auditing, SBH.
6. K. Venkataramana, Principles And Practice Of Auditing, SHBP.
7. MS Ramaswamy, Principles and Practice of Auditing.
8. Dinakar Pagare, Practice of Auditing, Sultan Chand
9. Kamal Gupta, Practical Auditing, TMH
10. R.G Sexena - Principles and Practice of Auditing, HPH

6.3 INCOME TAX - II

OBJECTIVE

The Objective of this subject is to make the students to understand the computation of Taxable Income and Tax Liability of individuals.

Unit 1: PROFITS AND GAINS FROM BUSINESS OR PROFESSION **16 Hrs**

Meaning and Definition of Business, Profession – Vocation - Expenses Expressly Allowed – Allowable Losses – Expenses Expressly Disallowed – Expenses Allowed on Payment Basis - Problems on Business relating to Sole Trader and Problems on Profession relating to Chartered Accountant, Advocate and Medical Practitioner.

Unit 2: CAPITAL GAINS **16 Hrs**

Basis of Charge – Capital Assets – Transfer of Capital Assets – Computation of Capital Gains – Exemptions U/S 54, 54B, 54D, 54EC, 54F– Problems on Capital Gains.

Unit 3: INCOME FROM OTHER SOURCES **10 Hrs**

Incomes – Taxable under the head Other Sources – Securities – Kinds of Securities – Rules for Grossing Up – Ex-Interest Securities – Cum-Interest Securities – Bond Washing Transactions – Problems on Income from Other Sources.

Unit 4: DEDUCTIONS FROM GROSS TOTAL INCOME **06 Hrs**

Deductions u/s: 80 C, 80 CCC, 80 CCD, 80 D, 80 G, 80 GG, 80 GGA, and 80 U. (80 G & 80 GG together should not be given in one problem)

Unit 5: SET-OFF & CARRY FORWARD OF LOSSES AND ASSESSMENT OF INDIVIDUALS **08Hrs**

Meaning –Provision for Set-off & Carry forward of losses (Theory only).

Computation of Total Income and Tax Liability of an Individual Assessee (Problems– in case of income from salary & house property- computed income may be given).

SKILL DEVELOPMENT

- Table of rates of Tax deducted at source.
- Filing of IT returns of individuals.
- List of Enclosures for IT returns.

BOOKS FOR REFERENCE

1. Dr. Vinod K. Singhania: Direct Taxes – Law and Practice, Taxmann publication.
2. B.B. Lal: Direct Taxes, Konark Publisher (P) ltd.
3. Dinakar Pagare: Law and Practice of Income Tax, Sultan Chand and sons.
4. Gaur & Narang: Income Tax, Kalyani
5. B.B. Lal: Income Tax, Central Sales Tax Law & Practice, Konark Publisher (P) Ltd.
6. Singhania: Income Tax
7. Dr. H.C Mehrothra : Income Tax, Sahitya Bhavan
8. 7 Lecturer Income Tax – VBH

6.4 MANAGEMENT ACCOUNTING

OBJECTIVE

The objective of this subject is to enable the students to understand the analysis and interpretation of financial statements with a view to prepare management reports for decision-making.

UNIT 1: INTRODUCTION TO MANAGEMENT ACCOUNTING

12 Hrs

Management Accounting: Meaning – Definition – Objectives – Nature and Scope– Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting.

Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis and Trend Analysis.

UNIT2: RATIO ANALYSIS

14 Hrs

Meaning and Definition of Ratio, Classification of Ratios, Uses & Limitations – Meaning and types of Ratio Analysis – Calculation of Liquidity ratios, Profitability ratios and Solvency ratios.

UNIT 3: FUND FLOW ANALYSIS

10 Hrs

Meaning and Concept of Fund – Meaning and Definition of Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement - Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

UNIT 4: CASH FLOW ANALYSIS

14 Hrs

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents - Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of Ind AS-7 (old AS 3) – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating Activities – Cash Flow from Investing Activities and Cash Flow from Financing Activities – Preparation of Cash Flow Statement according to Ind AS-7 (old AS 3) (Indirect Method Only).

UNIT 5: MANAGEMENT REPORTING

06 Hrs

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Kinds of Reports – Drafting of Reports under different Situations.

SKILL DEVELOPMENT

- Collection of financial statements of any one organization for two years and preparing comparative statements
- Collection of financial statements of any two organization for two years and prepare a common Size Statements
- Collect statements of an Organization and Calculate Important Accounting Ratio's
- Draft a report on any crisis in an organization.

BOOKS FOR REFERENCE

1. Dr. S.N. Maheswari , Management Accounting
2. Sexana, Management Accounting
3. SudhindraBhat- Management Accounting
4. Dr. S.N. Goyal and Manmohan, Management Accounting
5. B.S. Raman, Management Accounting
6. Sharma and Gupta, Management Accounting
7. M Muniraju& K Ramachandra, Management Accounting
8. PN Reddy &Appanaiah, Essentials of Management Accounting.
9. J.Made Gowda - Management Accounting

ELECTIVE GROUPS

1. ACCOUNTING & TAXATION GROUP

AC 5.5 ADVANCED ACCOUNTING

OBJECTIVES:

The objective is to acquaint the students and make them familiar with the process and preparation of accounts of different types of organizations.

UNIT 1: ACCOUNTS OF BANKING COMPANIES

18 Hrs

Business of banking companies – some important provisions of Banking Regulation Act of 1949 – minimum capital and reserves – restriction on commission – brokerage – discounts – statutory reserves – cash reserves – books of accounts – special features of bank accounting, final accounts - balance sheet and profit and loss account – interest on doubtful debts – rebate on bill discounted – acceptance – endorsement and other obligations – problems as per new provisions.

UNIT 2: ACCOUNTS OF INSURANCE COMPANIES

14 Hrs

Meaning of life insurance and general insurance – accounting concepts relating to insurance companies - Preparation of Final accounts of insurance companies – revenue account and balance sheet.

UNIT 3: INFLATION ACCOUNTING

08 Hrs

Need – Meaning – definition – importance and need – role – objectives – merits and demerits – problems on current purchasing power method (CPP) and current cost accounting method (CCA).

UNIT 4: FARM ACCOUNTING

08 Hrs

Meaning – need and purpose – characteristics of farm accounting – nature of transactions – cost and revenue – apportionment of common cost – by product costing – farm accounting – recording of transactions – problems.

UNIT 5: INVESTMENT ACCOUNTING

08 Hrs

Introduction – classification of Investment – Cost of Investment – cum-interest and ex-interest – securities – Bonus shares- right shares – disposal of Investment – valuation of investments – procedures of recording shares – problems

SKILL DEVELOPMENT

- Preparation of different schedules with reference to final accounts of Banking Companies
- Preparation of financial statement of Life Insurance Company.
- Preparation of financial statement of General Insurance Company.

BOOKS FOR REFERENCE:

1. Made Gowda – Advanced Accounting, HPH
2. Jawaharlal, Managerial Accounting, HPH
3. S.N. Maheswari , Advanced Accountancy, Vikas Publishers
4. R. Venkataramana, Advanced Accountancy, VBH.
5. Soundrarajan A & K. Venkataramana, Advanced Accountancy, SHBP.
6. S. P. Jain and K. L. Narang – advanced accountancy, Kalyani
7. R L Gupta, Advanced Accountancy, Sultan Chand
8. Shukla and Grewal, Advanced Accountancy, S Chand

AC 5.6 GOODS AND SERVICES TAX

OBJECTIVE:

1. The objective is to equip students with the principles and provisions of Goods and Services Tax (GST), which is, implemented from 2017 under the notion of One Nation, One Tax and One Market.
2. To provide an insight into practical aspects and apply the provisions of GST laws to various situations.

Unit 1: INTRODUCTION TO GOODS AND SERVICES TAX (GST)

08 Hrs

Objectives and basic scheme of GST, Meaning – Salient features of GST – Subsuming of taxes – Benefits of implementing GST – Constitutional amendments - Structure of GST (Dual Model) – Central GST – State / Union Territory GST – Integrated GST - GST Council: Structure, Powers and Functions. Provisions for amendments.

Unit 2: GST ACTS: CGST Act, SGST Act (Karnataka State), IGST Act

08 Hrs

Salient features of CGST Act, SGST Act (Karnataka State), IGST Act - **Meaning and Definition:**

Aggregate turnover, Adjudicating authority, Agent, Business, Capital goods, Casual taxable person, Composite supply, Mixed supply, Exempt supply, Outward supply, Principal supply, Place of supply, Supplier, Goods, Input service distributor, Job work, Manufacture, Input tax, Input tax credit, Person, Place of business, Reverse charge, Works contract, Casual taxable person, Non-resident person. Export of goods / services, Import of goods / services, Intermediary, Location of supplier of service, Location of recipient of service.

Unit 3: PROCEDURE AND LEVY UNDER GST

24 Hrs

Registration under GST: Procedure for registration, Persons liable for registration, Persons not liable for registration, Compulsory registration, Deemed registration, Special provisions for Casual taxable persons and Non-resident taxable persons. Exempted goods and services - Rates of GST.

Procedure relating to Levy: (CGST & SGST): Scope of supply, Tax liability on Mixed and Composite supply, Time of supply of goods and services, Value of taxable supply. Computation of taxable value and tax liability.

Procedure relating to Levy: (IGST): Inter-state supply, intra-state supply, Zero rates supply, Value of taxable supply – Computation of taxable value and tax liability.

Input tax Credit: Eligibility, Apportionment, Inputs on capital goods, Distribution of credit by Input Service Distributor (ISD) – Transfer of Input tax credit - Simple Problems on utilization of input tax credit.

Unit 4: ASSESSMENT AND RETURNS

10 Hrs

Furnishing details of outward supplies and inward supplies, First return, Claim of input tax credit, Matching reversal and reclaim of input tax credit, Annual return and Final return. Problems on Assessment of tax and tax liability.

Unit 5: GST AND TECHNOLOGY

06 Hrs

GST Network: Structure, Vision and Mission, Powers and Functions. Goods and Service Tax Suidha Providers (GSP): Concept, Framework and Guidelines and architecture to integrate with GST system. GSP Eco system. (Theory only).

SKILL DEVELOPMENT:

- Narrate the procedure for calculation of CGST, SGCT and IGST.
- Show the flow chart of GST Suvidha Provider (GST).
- Prepare chart showing rates of GST.
- Prepare challans for payment of duty.
- Prepare Tax invoice under the GST Act.
- Prepare structure of GSTN and its working mechanism.
- Prepare list of exempted goods/ services under GST.
- Prepare organisation chart of GST Council.
- Prepare the chart showing scheme of GST.
- Compute taxable value and tax liability with imaginary figures under CGST, SGST and IGST.

BOOKS FOR REFERENCE:

1. Deloitte: GST Era Beckons, Wolters Kluwer.
2. Madhukar N Hiregange: Goods and Services Tax, Wolters Kluwer.
3. All About GST: V.S Datey - Taxman's.
4. Guide to GST: CA. Rajat Mohan,
5. Goods & Services Tax – Indian Journey: N.K. Gupta & Sunnania Batia, Barat's Publication
6. Goods & Services Tax – CA. Rajat Mohan,
7. Goods & Services Tax: Dr. Sanjiv Agrawal & CA. Sanjeev Malhotra.
8. GST - Law & Practice: Dr. B.G. Bhaskara, Manjunath. N & Naveen Kumar IM,
9. Understanding GST : Kamal Garg, Barat's Publication.

AC 6.5 BUSINESS TAXATION

OBJECTIVE

The objective is to enable the students to understand assessment of Firms and Companies with regard to Income tax act, 1961 and to study the other existing Indirect tax provisions on goods not covered under GST.

Unit 1: CUSTOMS ACT

10 Hrs

Meaning – Types of Custom Duties – Valuation for Customs Duty – Tariff Value – Customs Value – Methods of Valuation for Customs – Problems on Custom Duty.

Unit 2: SALES TAX / CENTRAL SALES TAX (on goods and services not covered under GST)

12 Hrs

Meaning and Definition – Features of Sales tax / CST – Levy and Collection of duties not covered under GST – Tax Administration – Taxable value of goods and services not covered under GST – Determination of Tax Liability (Simple Problems).

Unit 3: ASSESSMENT OF FIRMS

14 Hrs

Meaning of Partnership, Firm and Partners – New Scheme of Taxation of Firms – Assessment of Firms (Section 184) – Computation of Firm's Business Income – Treatment of Interest, Commission, Remuneration received by partners. Problems on Computation of Firms total income and tax liability.

Unit 4: ASSESSMENT OF COMPANIES

20 Hrs

Introduction – Meaning of Company – Types of Companies – Computation of Depreciation u/s 32 – Computation of Taxable Income of Companies – Minimum Alternative Tax (MAT) – Deductions u/s 80G, 80GGB, 80IA, 80 IB and Problems on Computation of Tax Liability.

SKILL DEVELOPMENT

- Collect financial statement of a firm and compute the taxable income
- Narrate the procedure for calculation of book profits.
- Narrate the Procedure of calculation of tax liability
- Prepare the challan for payment of tax under existing laws on goods not covered under GST.

BOOKS FOR REFERENCE

1. Vinod K Singhanian – “Direct Taxes - Law and Practice”, Taxmann Publications
2. H C Mehrotra and Goyal, “Direct Taxes”, Sahitya Bhavan Publications
3. Gaur and Narang ; Direct Taxes, Kalyani Publishers
4. Rajiva S. Mishra –Direct & Indirect Tax
5. Santhil & Santhil : Business taxation.
6. S. Bhat – Taxation Management.
7. Singhanian : Income Tax
8. V.S.Datey: Indirect Taxes – Law and Practice.
9. R. G. Saha, Usha Devi & Others – Taxation – HPH
10. 7 Lecturers Business Taxation – II, VBH

AC 6.6 COST MANAGEMENT

OBJECTIVE

The objective is to enable the students to understand techniques used to control as well as reduce the cost.

UNIT 1: COST CONTROL AND COST REDUCTION:

08 Hrs

Meaning of cost control and cost reduction, areas covered by cost control and cost reduction – product design, target costing, value analysis, value engineering, value chain analysis, Business Process Re-Engineering (theory only).

Unit 2: MARGINAL COSTING

12 Hrs

Absorption costing, cost classification under absorption costing, Meaning and Definition of marginal costing – Absorption Costing V/s Marginal Costing - Need for Marginal Costing, arguments against and in favor of marginal costing – marginal cost equation – Uses and Limitations of Marginal Costing - Break even analysis - Problems on Break Even Analyses.

Unit 3: STANDARD COSTING

12 Hrs

Historical costing - Introduction – Meaning & Definition of Standard Cost and Standard Costing - Advantages & Disadvantages of Standard Costing –preliminaries in establishing system of standard costing – Variance Analysis – Material Variance, Labour Variance and Overheads Variance – Problems on Material Variances and Labor Variances.

Unit 4: BUDGETARY CONTROL

12 Hrs

Introduction – Meaning & Definition of Budget and Budgetary Control – Objectives of Budgetary Control – essential requirements of budgetary control – advantages and disadvantages of budgetary control – Meaning, Types of Functional Budgets - Flexible Budgets, Cash Budgets, sales budget and production budget. Problems on Flexible budgets and cash budgets.

UNIT5: ACTIVITY BASED COSTING

12 Hrs

Introduction - Weakness of conventional system – concept of ABC – Kaplan and Cooper's Approach – cost drivers and cost pools – allocation of overheads under ABC – Characteristics of ABC – Steps in the implementation of ABC – Benefits from adaptation of ABC system – difficulties faced by the industries in the successful implementation of ABC - Problems on ABC.

SKILL DEVELOPMENT

- Preparation of Income Statement using Absorption Costing and Marginal Costing Technique
- Illustrate make or buying decisions helps in decision making.
- Preparation of Sales Budget with Imaginary Figures
- List any 10 industries where Standard Costing is used.

BOOKS FOR REFERENCE

1. S P Iyengar, Cost Accounting.
2. B.S. Raman, Cost Accounting.
3. K.S. Thakur: Cost Accounting.
4. M.N. Arora, Cost Accounting.
5. N. Prasad, Costing.
6. Palaniappan&Hariharan : Cost Accounting
7. Jain &Narang, Cost Accounting.
8. Gouri Shankar; Practical Costing.
9. IM Pandey :Management Accounting
10. CA & ICWA Bulletins.

2. FINANCE GROUP

FN 5.5 INTERNATIONAL FINANCIAL MANAGEMENT

OBJECTIVE

The objective is to develop the knowledge and skills expected of a Finance manager, in relation to investment, financing, and dividend policy decisions.

Unit 1: THE FINANCE FUNCTION

08 HRS

Financial management and financial objectives - The economic environment for business - Financial markets, money markets and institutions.

Unit 2: WORKING CAPITAL MANAGEMENT

08 HRS

The nature, elements and importance of working capital - Management of inventories accounts receivable accounts payable and cash determining working capital needs and funding strategies

Unit 3: INVESTMENT APPRAISAL

10 HRS

Investment appraisal techniques - Allowing for inflation and Taxation in investment appraisal - Adjusting for risk and uncertainty in investment appraisal - Specific investment decisions (lease or buy; asset replacement, capital rationing)

Unit 5: BUSINESS FINANCE

08 HRS

Sources of, and raising business finance - Estimating the cost of capital - Sources of finance and their relative costs - Capital structure theories and practical considerations

Unit 6: BUSINESS VALUATION

12 HRS

Nature and purpose of the valuation of business and financial assets - Models for the valuation of shares - The valuation of debt and other financial assets - Efficient market hypothesis (EMH) and practical considerations in the valuation of shares.

Unit 7: RISK MANAGEMENT

10 HRS

The Nature and types of Risk and approaches to Risk Management- Causes of Exchange Rate differences and Interest rate fluctuations – Hedging techniques for foreign Currency risk – Hedging techniques for Interest rate risk.

SKILL DEVELOPMENT

- Appreciate the role and purpose of the financial management function within an Business
- Examine the various sources of Business Finance, including Dividend policy and how much finance can be raised from within the Business
- Illustrate the principles underlying the Valuation of Business and financial assets including the impact of cost of capital on the value of Business.
- Examine the risks and the main techniques employed in the Management of such risk

RECOMMENDED BOOKS

- 1 International Financial Management by Milind Sathye, Larry Rose, Larissa Allen, Rae Weston.
- 2 Financial Management by Paresh Shah
- 3 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 4 Audit & Assurance INT (ACCA) BPP Publishing
- 5 Audit & Assurance INT (ACCA) Kaplan Publishing

FN 5.6 GOODS AND SERVICES TAX

OBJECTIVE:

1. The objective is to equip students with the principles and provisions of Goods and Services Tax (GST), which is, implemented from 2017 under the notion of One Nation, One Tax and One Market.
2. To provide an insight into practical aspects and apply the provisions of GST laws to various situations.

Unit 1: INTRODUCTION TO GOODS AND SERVICES TAX (GST)

08 Hrs

Objectives and basic scheme of GST, Meaning – Salient features of GST – Subsuming of taxes – Benefits of implementing GST – Constitutional amendments - Structure of GST (Dual Model) – Central GST – State / Union Territory GST – Integrated GST - GST Council: Structure, Powers and Functions. Provisions for amendments.

Unit 2: GST ACTS: CGST Act, SGST Act (Karnataka State), IGST Act

08 Hrs

Salient features of CGST Act, SGST Act (Karnataka State), IGST Act - **Meaning and Definition:**

Aggregate turnover, Adjudicating authority, Agent, Business, Capital goods, Casual taxable person, Composite supply, Mixed supply, Exempt supply, Outward supply, Principal supply, Place of supply, Supplier, Goods, Input service distributor, Job work, Manufacture, Input tax, Input tax credit, Person, Place of business, Reverse charge, Works contract, Casual taxable person, Non-resident person. Export of goods / services, Import of goods / services, Intermediary, Location of supplier of service, Location of recipient of service.

Unit 3: PROCEDURE AND LEVY UNDER GST

24 Hrs

Registration under GST: Procedure for registration, Persons liable for registration, Persons not liable for registration, Compulsory registration, Deemed registration, Special provisions for Casual taxable persons and Non-resident taxable persons. Exempted goods and services - Rates of GST.

Procedure relating to Levy: (CGST & SGST): Scope of supply, Tax liability on Mixed and Composite supply, Time of supply of goods and services, Value of taxable supply. Computation of taxable value and tax liability.

Procedure relating to Levy: (IGST): Inter-state supply, intra-state supply, Zero rates supply, Value of taxable supply – Computation of taxable value and tax liability.

Input tax Credit: Eligibility, Apportionment, Inputs on capital goods, Distribution of credit by Input Service Distributor (ISD) – Transfer of Input tax credit - Simple Problems on utilization of input tax credit.

Unit 4: ASSESSMENT AND RETURNS

10 Hrs

Furnishing details of outward supplies and inward supplies, First return, Claim of input tax credit, Matching reversal and reclaim of input tax credit, Annual return and Final return. Problems on Assessment of tax and tax liability.

Unit 5: GST AND TECHNOLOGY

06 Hrs

GST Network: Structure, Vision and Mission, Powers and Functions. Goods and Service Tax Suidha Providers (GSP): Concept, Framework and Guidelines and architecture to integrate with GST system. GSP Eco system. (Theory only).

SKILL DEVELOPMENT:

- Narrate the procedure for calculation of CGST, SGCT and IGST.
- Show the flow chart of GST Suvidha Provider (GST).
- Prepare chart showing rates of GST.
- Prepare challans for payment of duty.
- Prepare Tax invoice under the GST Act.
- Prepare structure of GSTN and its working mechanism.
- Prepare list of exempted goods/ services under GST.
- Prepare organisation chart of GST Council.
- Prepare the chart showing scheme of GST.
- Compute taxable value and tax liability with imaginary figures under CGST, SGST and IGST.

BOOKS FOR REFERENCE:

1. Deloitte: GST Era Beckons, Wolters Kluwer.
2. Madhukar N Hiregange: Goods and Services Tax, Wolters Kluwer.
3. All About GST: V.S Datey - Taxman's.
4. Guide to GST: CA. Rajat Mohan,
5. Goods & Services Tax – Indian Journey: N.K. Gupta & Sunnania Batia, Barat's Publication
6. Goods & Services Tax – CA. Rajat Mohan,
7. Goods & Services Tax: Dr. Sanjiv Agrawal & CA. Sanjeev Malhotra.
8. GST - Law & Practice: Dr. B.G. Bhaskara, Manjunath. N & Naveen Kumar IM,
9. Understanding GST : Kamal Garg, Barat's Publication.

FN 6.5 PERFORMANCE MANAGEMENT

OBJECTIVE

The objective is to develop knowledge and skills in the application of management accounting techniques to quantitative and qualitative information for planning decision making, performance evaluation, and control

UNIT 1: SPECIALIST COST AND MANAGEMENT ACCOUNTING TECHNIQUES 12 HRS

Activity-based costing - Target costing - Life cycle costing - Throughput accounting - Environmental accounting

UNIT 2: DECISION MAKING TECHNIQUES 12 HRS

Relevant cost analysis - Cost volume profit analysis - Limiting Factors Pricing decisions - Make-or-buy and other short-term decisions - Dealing with risk and uncertainty in decision making

Unit 3: BUDGETING AND CONTROL 10 HRS

Budgetary systems and types of budget - Quantitative analysis in budgeting Standard costing - Material mix and yield variances - Sales mix and quantity variances - Planning and operational variances

Unit 4: PERFORMANCE MEASUREMENT AND CONTROL 12 HRS

Performance management information systems - Sources of management Information - Management reports - Performance analysis in private sector organizations - Divisional performance and transfer pricing - Performance analysis in not-for-profit organizations and the public sector - External considerations and behavioral aspects

SKILL DEVELOPMENT

- Illustrate application of modern techniques of costing in industrial settings
- Appreciate the problems surrounding scarce resource, pricing and make-or-buy decisions, and how this relates to the assessment of performance
- Illustrate how a business should be managed and controlled and how information systems can be used to facilitate this
- Appreciate the importance of both financial and non-financial performance measures in management and the difficulties in assessing performance in divisionalized businesses.

RECOMMENDED BOOKS

- 1 Performance Management System - R K Sahu
- 2 Performance Management: Toward Organizational Excellence by T V Rao
- 3 Performance Management: It's About Performing - Not Just Appraising by Prem Chandha
- 4 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 5 Audit & Assurance INT (ACCA) BPP Publishing
- 6 Audit & Assurance INT (ACCA) Kaplan Publishing

FN 6.6 INTERNATIONAL AUDITING & ASSURANCE

OBJECTIVE:

This subject aims at imparting knowledge of International Auditing and Assurance.

UNIT 1: AUDIT FRAMEWORK AND REGULATION

12 hours

External audit engagements – Objective and Meaning, types of assurance engagement, Concepts of Accountability, Stewardship and Agency, Elements of an Assurance Engagement, Regulatory environment – external audit, Mechanism to control auditors, Statutory Regulations: Appointment, Rights, Removal and Resignation of Auditors, Limitations of external audit, Corporate Governance – Objective and meaning, Directors responsibilities, Role and structure of Audit Committee, Fundamental principles of Professional Ethics, Audit threats and Safeguards, Role of External and Internal audit, Factors to assess – Internal audit, Limitations of internal audit, Outsourcing – Advantage and Disadvantage of outsourcing internal audit function, Format and Content of Audit Review Reports

UNIT 2: PLANNING AND RISK ASSESSMENT

10 hours

Preconditions for Audit, Obtaining audit engagement, Engagement Letters - Contents, Quality Control Procedures, Overall objectives of the auditor and the need to conduct an audit, Components of audit risk, Concepts – Materiality and Performance Materiality, Materiality levels, Procedures to obtain initial understanding, Analytical procedures in planning, Compute and interpret key ratios used in analytical procedures, Effect of fraud and misstatements on the Audit Strategy, Responsibilities of internal and external auditors for the prevention and detection of fraud and error, Audit Planning – need and importance, Contents of the overall Audit Strategy and Audit Plan, Difference between an interim and final audit, Audit Documentation – Need, importance and contents, safe custody and retention of Working Papers

UNIT 3: INTERNAL CONTROL

12 hours

Five components of Internal Control, How auditors record internal control systems, Evaluate internal control components including limitations and deficiencies, computer systems controls, Describe control objectives, control procedures, activities and tests of control in relation to:

i) The sales system; ii) The purchases system iii) The payroll system iv) The inventory system v) The cash system vi) Non-current assets

Requirements and methods of how reporting significant deficiencies in internal control are provided to management

UNIT 4: AUDIT EVIDENCE

12 hours

Assertions contained in the financial statements, audit procedures to obtain audit evidence, quality & quantity of audit evidence, problems associated with the audit and review of accounting estimates, control environment of smaller entities, Audit sampling – meaning and need, differences between statistical and non-statistical sampling – Examples and usage, Audit of specific items – Receivables, inventories, payables and accruals, bank and cash, tangible assets, intangible assets, non-current liabilities, provisions and contingencies, Share capital, reserves and directors' emoluments, Computer-assisted audit techniques – Meaning and examples, Work of others – extent of reliance, extent to which reference to the work of others can be made in the independent auditor's report, Audit techniques to not-for profit organisation.

UNIT 5: REVIEW AND REPORTING

10 hours

Subsequent events – Purpose, Indicators and Responsibilities and procedures to be undertaken, Going Concern – Definition and importance, Responsibilities of auditors and management regarding going concern, Written representations – Purpose, Procedure and Reliability, Circumstances when written representation can be obtained, Audit finalisation and review – Procedures and sufficiency of evidence, Dealing with Uncorrected Statements.

SKILL DEVELOPMENT:

- Collect the information about types of audit standards
- Analyse audit reports on various standards
- Draft an investigation report on behalf of a Public Limited Company
- Record the verification procedure with respect to any one fixed asset
- Draft an audit program

BOOKS FOR REFERENCE:

- 1 Audit & Assurance INT (ACCA) ISDC Becker Publishing
- 2 Audit & Assurance INT (ACCA) BPP Publishing
- 3 Audit & Assurance INT (ACCA) Kaplan Publishing
- 4 Auditing and Assurance for CA IPCC by Sanjib Kumar Basu
- 5 BN Tandon, Practical Auditing, Sultan Chand
- 6 Dr.Nanje Gowda, Principles of Auditing, VBH
- 7 Dr. Alice Mani: Principles & Practices of Auditing, SBH.
- 8 K. Venkataramana, Principles And Practice Of Auditing, SHBP.
- 9 MS Ramaswamy, Principles and Practice of Auditing.
- 10 DinakarPagare, Practice of Auditing, Sultan Chand
- 11 Kamal Gupta, Practical Auditing, TMH

3. INFORMATION & TECHNOLOGY GROUP

IT 5.5 ACCOUNTING INFORMATION SYSTEMS

OBJECTIVE:

The objective of this subject is to provide an insight into the way computerized information systems impact how the accounting data is captured, processed, and communicated. It introduces the technology, procedures, and controls that are necessary in modern accounting field.

Unit – 1: THE INFORMATION SYSTEM: AN ACCOUNTANT’S PERSPECTIVE 12Hrs

The Information Environment - What Is a System? An Information Systems Framework, AIS Subsystems, A General Model for AIS, Acquisition of Information Systems Organizational Structure - Business Segments, Functional Segmentation, The Accounting Function, The Information Technology Function. Evolution of Information System Models - The Manual Process Model, The Flat-File Model, The Database Model, The REA Model, Accountants as System Designers, Accountants as System Auditors

Unit – 2: INTRODUCTION TO TRANSACTION PROCESSING _____ 12Hrs

An Overview of Transaction Processing - Transaction Cycles, The Expenditure Cycle, The Conversion Cycle, The Revenue Cycle , Accounting Records - Manual Systems, The Audit Trail, Computer-Based Systems, Documentation Techniques - Data Flow Diagrams and Entity Relationship Diagrams Flowcharts , Record Layout Diagrams, Computer-Based Accounting Systems - Differences between Batch and Real-Time Systems , Alternative Data Processing Approaches, Batch Processing Using Real-Time Data Collection, Real-Time Processing.

Unit – 3: COMPUTER-BASED ACCOUNTING SYSTEMS 12Hrs

Automating Sales Order Processing with Batch Technology, Keystroke, Edit Run, Update Procedures, Reengineering Sales Order Processing with Real-Time Technology, Transaction Processing Procedures, General Ledger Update Procedures, Advantages of Real-Time Processing, Automated Cash Receipts Procedures, Reengineered Cash Receipts Procedures, Point-of-Sale (POS) Systems, Daily Procedures, End-of-Day Procedures, Reengineering Using EDI, Reengineering Using the Internet. Control Considerations for Computer-Based Systems. PC-Based Accounting Systems - PC Control Issues.

Unit – 4: FINANCIAL REPORTING AND MANAGEMENT REPORTING SYSTEMS 12Hrs

Data Coding Schemes - A System without Codes, A System with Codes, Numeric and Alphabetic Coding Schemes, The General Ledger System, The Journal Voucher, The GLS Database, GLS Procedures, The Financial Reporting System - Sophisticated Users with Homogeneous, Information Needs, Financial Reporting Procedures, Controlling the FRS. The Management Reporting System, Factors that Influence the MRS, Management Principles, Management Function, Level, and Decision Type Problem Structure, Types of Management Reports, Responsibility Accounting , Behavioral Considerations.

Unit – 5: COMPUTER CONTROLS AND AUDITING IT CONTROLS 08Hrs

Relationship between IT Controls and Financial Reporting, Audit Implications of Sections **IT Governance Controls, Organizational Structure Controls**, Segregation of Duties within the Centralized Firm, The Distributed Model, Creating a Corporate IT Function, Audit Objectives Relating to Organizational Structure, Audit Procedures Relating to Organizational Structure.

SKILL DEVELOPMENT:

- Generation of different types of management reports
- Preparation of dataflow diagrams
- Preparation of different flowcharts -Eg: Information flow in Finance department of a company
- Computerization of transactions and drawing of a Balance Sheet

BOOKS FOR REFERENCE:

1. Marriappa B. Accounting Information System, HPH
2. "Accounting Information Systems", 11/E Marshall B. Romney, Brigham Young University Paul J. Steinbart, Arizona State University, Prentice Hall
3. "The Crossroads of Accounting and IT" Donna Kay, Ali Ovlia, May 2011, Hardback,
4. "Accounting Information Systems" International Edition 10th Edition George Bodnar, William Hopwood Aug 2009,.

I.T 5.6 ENTERPRISE RESOURCE PLANNING

OBJECTIVES:

This paper will orient students to understand that business processes can be integrated in a seamless chain.

UNIT 1: INTRODUCTION

12Hrs

Introduction To ERP, Evolution of ERP, What is ERP? Reasons for the growth of ERP, Scenario and Justification of ERP in India, Evaluation of ERP, Various Modules of ERP, Advantage of ERP.

UNIT 2: ERP ENVIRONMENT

12 Hrs

An overview of Enterprise, Integrated Management Information, Business Modeling, ERP for Small Business, ERP for make to order companies, Business Process Mapping for ERP Module Design, Hardware Environment and its Selection for ERP Implementation.

UNIT 3: ERP RELATED TECHNOLOGIES

12 Hrs

ERP and Related Technologies, Business Process Reengineering (BPR), Management Information System (MIS), Executive Information System (EIS), Decision support System (DSS), Supply Chain Management (SCM)

UNIT 4: ERP MODULES

10Hrs

ERP Modules, Introduction to Finance, Plant Maintenance, Quality Management, Materials Management

UNIT 5: ERP MARKET

10Hrs

ERP Market, Introduction, SAP AG, Baan Company, Oracle Corporation, People Soft, JD Edwards World Solutions Company, System Software Associates, Inc. (SSA) QAD, A Comparative Assessment and Selection of ERP Packages and Modules.

SKILL DEVELOPMENT:

- Prepare a list of companies that provide ERP packages and their features.

BOOKS FOR REFERENCE:

1. C.S. V Murthy Enterprise Resource Planning
2. R.G. Saha – Enterprise Resource Planning - HPH
3. Alexis Leon, Leon Publishers: Enterprise Resource Planning
4. Ravi Anupindi, Sunil Chopra, Pearson Education”. “Managing Business Process Flows
5. Altekar, PHI. Enterprise Resource Planning
6. Srivatsava, I.K. International Publishers, Enterprise Resource Planning
7. P. Diwan
8. Vinod Kumar Garg and N.K. Venkitakrishnan, PHI. Enterprise Resource Planning
9. Introduction to SAP, an Overview of SD: MM, PP, FI/CO Modules of SAP.
10. Zaveri Jyotindra Enterprise Resource Planning

I.T 6.5 INFORMATION TECHNOLOGY AND AUDIT

OBJECTIVE:

This subject aims at imparting knowledge about Auditing done with the use of Information Technology

Unit 1: INTRODUCTION TO AUDITING SOFTWARE 12 Hrs

Introduction – Meaning - Definition — Preparation of Audit Working Papers –Tally ERP 9 Auditors Edition: Introduction, features, characteristics – Tally.Net: features – requirements for remote connectivity – Access information via SMS, Safeguard Data – Automated Backup and Recovery.

Unit 2: AUDIT OF SUBSIDIARY BOOKS 10 Hrs

Cash book: Checking of Receipts and Payments, vouchers, Checking of Bank Transaction, BRS. Petty cash transaction: sales day book, purchase day book, sales return book, Purchase Return Book, Bills Receivable book, Bills payable book.

Unit 3: AUDIT OF FINANCIAL STATEMENTS 10 Hrs

Configuring profit/Loss account, display profit/loss account, Audit of profit/loss account, Configuring balance sheet, display the balance sheet, Display balance sheet with different stock valuation methods, Setting closing stock manually in the balance sheet. Balance Sheet of Joint Stock Companies.

Unit 4: TAX AUDIT 12 Hrs

Extracting financial and quantitative information required for Tax Audit (under Sec. 44AB), Displaying relevant data for Audit based on Clause requirement, Instant Statistics on Audit Listings (Audited Vouchers & Unaudited Vouchers), record Audit Remarks using Audit Notes, Provision to mark Vouchers for Clarification / Verification from Clients, Provides facility to post corrections and reviews remotely, Tracking any alteration / modification to vouchers post Audit, Generate Annexure to Form 3CD, Printing of Form 3CD along with Annexure I and II, Printing of Form 3CA and Form 3CB

Unit 5: STATUTORY AUDIT 12 Hrs

Creation and maintenance of Audit Program, create the Audit Program as pre audit activity, Supports to prepare and maintain **Audit Working Papers**, Facility to mark the applicable and compiled **Accounting Standards** for a company. Extracting the financial information required for Statutory Audit, Displaying the relevant data in the required form for analysis, Audit the Vouchers along with instant statistics, Track and audit the Related Party. Mechanism to Audit and interact with the Client remotely, generate the following Financial Statements as per the format specified in Company's Act: Schedule VI Balance Sheet, Schedule VI P&L Statement.

SKILL DEVELOPMENT:

- Maintain a computer record and execute the problems

BOOKS FOR REFERENCE:

1. Learning Tally ERP 9, Vishnu Pratap Singh, Computech publications limited, 3rd Revised edition.
2. Guide to Tally 9, Law Point,
3. R.G. Saha – Information Technology - HPH
4. Tally Ver 9, C Nellai Kannan, Nels publication, ISBN 81-901408-2-5.

I.T6.6 BANKING TECHNOLOGY AND MANAGEMENT

OBJECTIVE

The objective of this subject is to acquaint students with the banking technology and their recent developments and enhance their knowledge on modern banking concepts and techniques.

Unit 1: BRANCH OPERATION AND CORE BANKING **12Hrs**

Introduction and evolution of bank management – Technological impact in banking operation – Total branch computerization – Concept of opportunities – Centralized banking – Concept, opportunities, challenges and implementation

Unit 2: DELIVERY CHANNELS **12Hrs**

Delivery channels – Automated Teller machine (ATM) – Phone banking – call centers – Internet banking – Mobile banking – Payment gateways – Card technologies – MICR electronic clearing

Unit 3: BACK OFFICE OPERATIONS **12Hrs**

Bank back office management – Inter branch reconciliation – Treasury management – Forex operations – Risk management – Data center management – Network management – Knowledge management (MIS/DSS/EIS) – Customer relationship management (CRM).

Unit 4: INTER BANK PAYMENT SYSTEM **10Hrs**

Interface with payment system network – structured financial messaging system – Electronic fund transfer – RTGS – Negotiated dealing systems and securities settlement systems – Electronic Money – E- Cheques.

Unit 5: CONTEMPORARY ISSUES IN BANKING TECHNIQUES **10Hrs**

Analysis of Rangarajan committee reports – E Banking budgeting – Banking software's.

SKILL DEVELOPMENT :

- Filling of application for opening a Bank Account
- Preparations of Bank Reconciliation Statement
- Identify and compare the banking delivery channels of nationalized banks and private banks
- List out the boons and the banes of computerization of banks operations.
- Current issues in banking technology to be discussed in class.

BOOKS FOR REFERENCE:

1. Kaptan S S & Choubey N S, "E-Indian Banking in Electronic Era", Sarup & Sons, New Delhi 2003.
2. Vasudeva, "E-Banking", Common Wealth Publishers, New Delhi, 2005.
3. Chandramohan : Fundamental of Computer Network I.K. International Publishers
4. Effraim Turban, Rainer R. Kelly, Richard E. Potter, "Information Technology", John Wiley & Sons Inc, 2000.
5. Andrew S. Tanenbaum, "Computer Networks", Tata McGraw Hill, 3rd Edition, 2001
6. Padwal & Godse : Transformation of Indian Banks with Information Technology.

4BANKING & INSURANCE GROUP

B.I 5.5 INTERNATIONAL BANKING & FOREX MANAGEMENT

OBJECTIVE

The objective of this subject is to enable the students to understand the various concepts of international banking and foreign exchange rate determination.

UNIT1 : INTRODUCTION TO INTERNATIONAL BANKING

10Hrs

Introduction – Meaning – Functions – Financing of Exports – Financing of Imports – International Payment Systems.

UNIT 2 : INTERNATIONAL CAPITAL MARKETS

10Hrs

Introduction – Meaning and Definition – Types – Financial market flow beyond national boundaries – Debt and non – debt flows – Volatile and Stable flows – Interest Rate Differentials - Demand for and supply of funds across borders.

UNIT 3 : OFFSHORE BANKING CENTRES

10Hrs

Introduction – Meaning – Role in International Financing – Global Balance sheet of banks – Asset and Liability Management of Foreign Banks.

UNIT 4: FOREIGN EXCHANGE AND MARKETS

14Hrs

Introduction – Meaning – Elements – Importance – Evolution of Exchange Rate System – International Monetary System – Gold Standard – Types of Exchange Rates – Fluctuations in Foreign Exchange rates – Causes and Effects – Need for Stable Foreign Exchange Rates – Determination of Exchange rates – Theories of Determination of Foreign Exchange Rates.

UNIT 5 : FOREX MARKET IN INDIA

12Hrs

Introduction – Meaning – Types – Operations – Convertibility - Objectives of Foreign Exchange Control – Problems of Foreign Exchange markets in India – Mechanism to settle the problems - Role of RBI in settlement of foreign exchange problems in India.

SKILL DEVELOPMENT

- Chart showing the currencies of Different countries.
- Table showing one month foreign exchange rates of Rupee and US \$
- Role of RBI in settlement of foreign exchange problems in India.
- Global Balance sheet of a bank
- Comment on Asset and Liability Management of a Foreign Bank.

BOOKS FOR REFERENCE

1. Harris Manville, International Finance.
2. Keith Pibean, International Finance.
3. Madhu Vjj, International Finance.
4. Timothy Carl Kesta, Case and Problems in International Finance.
5. Avadhani B.K, International Finance Theory and Practice.
6. Somanatha: International Financial Management I.K. International Publishers
7. P.A. Apte, International Financial Management.
8. Levi, International Marketing Management.
9. Chaudhuri & Agarwal Foreign Trade & Foreign Exchange, HPH

B.I. 5.6 LIFE & GENERAL INSURANCE

OBJECTIVE

The objective is to enable the students to understand various aspects of Life & General Insurance.

Unit 1: INTRODUCTION TO LIFE INSURANCE **12 Hrs**

Introduction to Life Insurance - Principles of Life Insurance - Life insurance products, pensions and annuities - Life insurance underwriting - Need for selection - Factors affecting rate of mortality - Sources of data - Concept of extra mortality - Numerical methods of undertaking - Occupational hazards.

Unit 2: LEGAL ASPECTS OF LIFE INSURANCE **12 Hrs**

Legal Aspects of Insurance - Indian contract Act, special features of Insurance contract. Insurance laws, Insurance Act, LIC Act, IRDA Act.

Unit 3: CLAIM MANAGEMENT & RE-INSURANCE **10 Hrs**

Claim Management - Claim Settlement - Legal Framework - Third party Administration, Insurance ombudsman - Consumer Protection Act - Re-Insurance in Life Insurance - Retention Limits - Methods of Re-insurance.

Unit 4: INTRODUCTION TO GENERAL INSURANCE **12 Hrs**

Introduction to General Insurance. Principles of General Insurance. Types of General Insurance - Personal general insurance products (Fire, Personal Liability, Motors, Miscellaneous Insurance). Terminology, clauses and covers. Risk assessment, underwriting and ratemaking. Product design, development and evaluation. Loss of Provincial control.

Unit 5: INSURANCE INDUSTRY **10 Hrs**

Insurance Industry - Brief History - Pre Nationalization and post nationalization - Current scenario.- Re-Insurance - Functions, Methods of Re-Insurance.

SKILL DEVELOPMENT :

- Calculation of policy premium with imaginary figures
- Calculation of fair claims with imaginary figures
- Preparation of list occupational hazards under life insurance

BOOKS FOR REFERENCE

1. Annie Stephen L – HPH
2. P. Perya Swamy ;Principles and Practice of Life Insurance
3. Raman B, Your Life Insurance Hand Book
4. William C. Arthur, Risk Management and Insurance
5. G. Krishna Swamy: A Text book on Principles and Practices of Life Insurance
6. Gopal Krishnan, Liability Insurance
7. Aramvalarthan : Risk Management I.K. Intl
8. Mishra M.N, Insurance Principles and Practice
9. Bose A.K, Engineering Insurance
10. Fire Insurance Claim – Insurance institute of India
11. P. K Gupta; Insurance & Risk Management

B.I 6.5 RISK MANAGEMENT

OBJECTIVE

The objective is to expose students to acquire skills in Risk Management.

Unit 1: INTRODUCTION TO RISK MANAGEMENT

10 Hrs

Introduction to risk management- elements of uncertainty peril, hazards – types, risk management process- definition, types and various means of managing risk – limitations of risk management.

Unit 2: SOURCES OF RISK AND EXPOSURE

10 Hrs

Sources of risk and exposure, pure risk and speculative risk, acceptable and non- acceptable risks, static and dynamic risk, various elements of cost of risk.

Unit 3: CORPORATE RISK MANAGEMENT

12 Hrs

Corporate risk management, riskiness of returns, -approaches and processes of corporate risk management, management of business risk, currency and interest rate risk, assets and liability management, - guidelines and tools of risk management.

Unit 4: DERIVATIVES AS RISK MANAGEMENT TOOLS

12 Hrs

Derivatives as risk management tools, features of hedging, forward, future, options and swaps. Classification of derivatives, important features of derivatives.

Unit 5: HEDGING & OPTIONS

12 Hrs

Hedging risks with currency and interest rate futures, index future and commodity futures, Fundamental concepts of options and hedging and risk management with options, Fundamentals of currency and interest rate swaps- risk management with swaps, Fundamental concepts of VAR approach and insurance.

SKILL DEVELOPMENT

- Understand the elements of Corporate Risk Management. Adequate exposure to the functioning of Risk Management tools.

BOOKS FOR REFERENCE

1. Gopal Krishnan, Liability Insurance
2. Mishra M.N, Insurance
3. Mishra M.N, Insurance Principles and Practice
4. Bose A.K, Engineering Insurance
5. Fire Insurance Claim – Insurance Institute of India
6. N. Gulati –Risk Management
7. Aramvalarthan : Risk Management I.K. International Publishers
8. Life Insurance Claims - Insurance Institute of India
9. Gupta S.P, Liability and Engineering Insurance
10. Gupta S.P, Marine Insurance Claim
11. G. Kotreshwar – Risk Management

B.I 6.6 MARKETING OF INSURANCE PRODUCTS

OBJECTIVE

The objective is to enable the students to acquire skills in Marketing of Insurance Products

Unit 1: INTRODUCTION TO MARKETING IN THE INSURANCE INDUSTRY 14 hrs

The role of the customer in marketing, The definition of marketing, Marketing and other related business functions within the insurance industry, Creating a marketing strategy for insurance products, Impact of external and internal factors on the marketing strategy, External considerations including: Social – Economic – Competition – Technological – Ecological and Meteorological – Consumer protection, Internal considerations including: Structure - Behaviour – Values.

Unit 2: MARKETING THEORY AND CONCEPTS IN THE INSURANCE INDUSTRY

14 hrs

Insurance customers and their buying patterns, Supply and demand in the insurance industry (including insurance cycle), The marketing mix, Segmentation of existing and prospective customers, Competitive positioning, Differentiation of the product, Financial Value Chain analysis, Portfolio management, The life cycle of insurance products, Analyzing existing insurance customers, Core competencies, Internal auditing of marketing practices, SWOT analysis.

Unit 3: DEVELOP A MARKETING STRATEGY FOR INSURANCE PRODUCTS 14 hrs

Identifying segments in insurance customers, Customer's attributes and behaviour, Using data from customer relationship management systems to feed into strategy, Identifying competitors, Competitor's portfolio of offerings and position, Developing a portfolio of opportunities, Scenario testing, Taking a position in the market, Value and supply chain analysis, Pricing, Regulation, Branding insurance products and services, Establishing a brand, The importance of branding, Brand awareness, Brand extension, White labeling.

Unit 4: IMPLEMENT AND DELIVER A MARKETING STRATEGY 14 hrs

Communicating the marketing message for insurance products and services, The marketing communications portfolio, The marketing message, E-marketing, Advertising, Sales and account management, Public relations, Promotion, Sponsorship, Emergency communications plan, Distributing insurance and finance products and services, Different channels for distribution (including Call centers), Distribution options: Financial advisers – Intermediaries / brokers – Direct selling – Financial institutions, including bank assurance – Aggregators – Other organizations distributing insurance, Risk assessment, Service delivery, Customer experience, including claims, Managing the customer relationship.

SKILL DEVELOPMENT

- Preparation of an advertisement copy to Marketing Insurance Products.
- Conducting a survey to understand policy holders stratification
- Designing brochure for Marketing Insurance Products

BOOKS FOR REFERENCE

1. Marketing: concepts and strategies. Sally Dibb ... [et al]. 5th European ed. Boston, Massachusetts: Houghton Mifflin, 2005.
2. The marketing casebook. Sally Dibb, Lyndon Simpkin. 2nd ed. London: Thomson Learning, 2001.

3. Marketing management. Philip Kotler. 13th ed. London: Pearson Education, 2009.
4. Marketing planning for financial services. Roy Stephenson. Aldershot, Hants: Gower, 2005.
5. A Mishra/A Mishra – Marketing strategy.
6. Marketing strategy: the difference between marketing and markets. Paul Fifield. 3rd ed. London: Butterworth- Heinemann, 2007.
7. Marketing theory: a student text. Michael J Baker. London: Thomson Learning, 2000.
8. Principles of marketing. Philip Kotler, Gary Armstrong. 12th ed. International ed. Upper Saddle River, New Jersey: Pearson Education, 2008
9. Innovative Marketing balancing Commercial goals & Corporate responsibility

No.Aca-II/A3/Inst/New Cou/Commerce/2017-18

Dated: 24/07/2017

NOTIFICATION

Sub: Institution New **B.Com. Courses and B.B.A. Course** --- under CBCS in Bangalore University, Bangalore from the Academic year 2017-18.

Ref: 1. Proceedings of the Faculty of Commerce meeting held on 01/06/2017.
2. Resolution of the Ordinary Meeting of the Academic Council held on 20/06/2017.

Pursuant to the resolution of the Ordinary meeting of the Academic Council held on 20/06/2017, the Vice-Chancellor is pleased to Institute the following New **B.Com. Courses and BBA Course under Choice Based Credit System (Semester Scheme)** - from the Academic Year 2017-18.

Sl No.	Name of the Courses
01	B.Com. - (Insurance and Actuarial Studies)
02	B.Com. - (Logistics and Supply Chain Management)
03	B.B.A. - (Aviation Management)

The Syllabus and Scheme of Examination are annexured herewith.

BY ORDER


REGISTRAR

7/8/2017

To:

The Chairperson of BOS in Commerce, Bangalore University, Bangalore.

Copies to:

1. The Dean, Faculty of Commerce, Bangalore University, Bangalore.
2. The Director, PMEB, Bangalore University, Bangalore.
3. The Registrar (Evaluation), Bangalore University, Bangalore.
4. The Deputy Registrar, Examination Branch/Academic Section- I, Bangalore University, Bangalore.
5. The Director, Prasaranga, Bangalore University, Bangalore -with a request to publish the same in the next Bangalore University Gazette.
6. All the Chairpersons of Board of Studies of UG and PG Courses, Bangalore University, Bangalore.
7. ✓ The System Analyst, BUB- with a request to upload this notification along with Syllabus in the official website of Bangalore University.
8. The Concerned Superintendents of Academic Section I, III and IV, Examination Branch, BUB.
9. The P.S to Vice-Chancellor/Registrar/Registrar (Evaluation) and P.A to F.O, BUB.

M.SC IN PSYCHOLOGY

Subjects	Paper	Instruction hrs/week	Duration of Exam (hrs)	Marks			Credits
				IA	Exam	Total	
a) I Semester of the Postgraduate Program							
Core Subject	101 - Theoretical Perspectives of Psychology 102 - Cognitive Psychology 103 - Biopsychology 104 - Research Methods	4x4	4x3	4x30	4x70	4x100	4x4
	105 - Experimental Psychology (Practical 1) 106 - Computer Applications (Practical 2)	2x8	2x6	2x30	2x70	2x100	2x4
Soft Core	107 - Psychometry	1x3	1x3	1x30	1x70	1x100	1x2
Semester Total of Credits							26

b) II Semester of the Postgraduate Program							
Core Subject	201 – Personality Psychology 202 – Counselling and guidance 203 – Child Psychopathology 204 - Qualitative Research Methods	4x4	4x3	4x30	4x70	4x100	4x4
	205 - Child assessment and intervention. (Practical1)	1x8	1x6	1x30	1x70	1x100	1x4
	206 - Project Work (Practical 2)	8	Report Evaluation	1x30	1x70	1x100	1x4
Soft Core	207 – Theories of Learning	1x3	1x3	1x30	1x70	1x100	1x2
Semester Total of Credits							26

c) III Semester of the PG Program							
Core Subject	301 - Organizational Behavior I –A micro perspective. 302 – Psychopathology 303- Psychological Therapies	3x4	3x3	3x30	3x70	3x100	3x4
	305 - Clinical assessment and intervention.(Practical1) 306 - Assessment and Intervention in Organisations (Practical 2)	2x8	2x6	2x30	2x70	2x100	2x4
Open Elective	304 - Foundations and Application of psychology	1x4	1x3	1x30	1x70	1x100	1x4
Semester Total of Credits							24

d) IV Semester of the PG Program							
Core Subject and Electives	401 - Organizational behaviour II -A Macro perspective. 402 - Social and Community Psychology 403 - Rehabilitation Psychology 404 - Positive psychology	4x4	4X4	4x30	4x70	4x100	4x4
	405 - Alternative healing techniques. (Practical1)	1x8	1x6	1x30	1x70	1x100	1x4
	406 - Dissertation (Practical 2)	8	Report Evaluation	1x30	1x70	1x100	1x4
Semester Total of Credits							24
Program Grand Total of Credits							100

M.Sc
I SEMESTER

Preamble:

Masters Degree in psychology has been of great demand in the recent years. The need for psychological assistance and guidance has been recognized by all the sections of the society and there is a dearth of professionals in the field. Keeping this in mind the present curricula has been framed to provide theoretical as well as practical training in a wide range of specializations that would help the post graduate to be eligible to be employed in the field of education, clinical/hospital setup as well as in organizations in the capacity of counsellor, clinical psychologist, psychometrician, trainer and as a facilitator in organizational development process. Students would also be equipped to prepare and fare well in competitive examinations conducted by UGC/ICSSR/State and Central Civil Services Boards etc.

The course has been redesigned with emphasis not only on the syllabi but also on co-curricular activities such as book reviews/seminars/ presentations/assignments that would be out of the syllabi and constitute a part of the internal assessment.

Project work in the second semester:

Since the students would study psychometry as a soft core paper field work could be thought of as a group/team work with each group working on designing/developing a psychological test. The evaluation of the same would constitute presentation by the batch/team followed by viva voce examination(the procedure is being followed in the professional courses like engineering).

Project work in the fourth semester:

This would also be team/batch wise and topics could be chosen from any of the field of their interest.

101: THEORETICAL PERSPECTIVES OF PSYCHOLOGY

Learning objective: Students would get a historical perspective about the development of psychology as an independent body of knowledge. The emphasis is on understanding human behaviour from each school's perspective in respect of human motivation, development and

functioning of human personality and the application of principles of each school to the development of mankind as well as its therapeutic value.

Unit 1- Psychoanalytical perspective:

History, Sigmund Freud's approach, Carl Jung, Adler, and other Neo-freudian approach to motivation, personality, therapy and applications.

Unit 2 - Behaviouristic perspective:

- Learning- Classical Conditioning (Pavlov) and Operant Conditioning (Skinner);
- Motivation – Drive and incentive theories (Hull), (Miller and Dollard, Rotter);
- Personality – Mowrer; therapeutic techniques and applications.

Unit 3 - Humanistic & Existential perspectives:

- Motivation : Hierarchy of motives (Maslow), ERG Theory (Alderfer), Theory of needs (McClelland);
- Personality : Personal construct (Kelly), Self-theory of personality (Rogers); Existential approaches; therapies and application.

Unit 4 - Cognitive and Social Perspectives:

- Motivation: Cognitive balance and dissonance theory (Hieder, Festinger);
- Personality: Dissonance (Brehm), Social learning theory (Bandura); therapy and application.

Unit 5 -Indigenous Perspectives:

- Motivation: Advaita, Buddhist and Jaina perspectives;
- Personality: Advaita, Upanishads, Buddhist and Jaina perspectives;
- Therapy (healing techniques), Applications.

References:

- Davis R.S (1996). Psychology of Learning and Motivation, academic press.
 - Ekman, Paul and Davidson, R.J (Eds-1994). The nature of emotions, fundamental questions.Delhi, OxfordUniversity press Series in affective science.
 - Hall. C.S. Lindzey G and Campbell J.B (1998) theories of personality New York john wiley and sons (4th edition).
 - Hergenhahn B.R. and Olson M. H. (1998) Theories of personality, Prentice Hall
 - Hilgard, E. R Bower G.H, Sahakian, H (1997) Psychology of learning. Prentice hall of India, revised edition
 - Lawrence .A, Pervin and Oliver P John (1997) Personality: theory and research new york, John Wiley , 7th edition
 - Sahakian(1976) Introduction to psychology of learning. Chicoga: Rand McNally college publishing company.
 - Weiner B (1985) Human Motivation, New York: Springer and Verlag.
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102: COGNITIVE PSYCHOLOGY

Learning Objective: Cognitive Psychology is one of the fields of psychology that addresses many of the specialised functions of human beings. Development in the field of science especially in computer science and neurology has brought in a paradigm shift in understanding human behaviour. Students would get an orientation in this direction.

Unit 1. Fundamentals & Current areas of research in cognitive psychology.

- Definition, Emergence of cognitive psychology, nature of cognitive psychology, Current areas of research in cognitive psychology, (Educational application, marketing and advertisement,)
- Research methods in cognitive psychology- goals of research. Distinctive research method.
- Attention and consciousness. Theories models of attention.
- Consciousness – history, function, consciousness of mental process, modern theories of consciousness. Memory- types, determinates models of memory.

Unit 2. Higher Cognitive processes – Reasoning, Creativity.

- Reasoning definition, types, influencing factors, moral reasoning,
- creativity- definition, steps involved in creative process, obstacles involved in creativity, enhancing techniques of creativity.

Unit 3. Psycholinguistics

- Language origin, Definition, theories - Chomsky.
- Semantics, pragmatics, syntax, characteristics of language.

Unit 5. Meta cognition

- Problem solving, steps in problem solving, types, methods, obstacles and aids of problem solving, Meta-cognitive strategies.
- Artificial intelligence, Robotics, Models on Information processing, Consciousness.

Unit 4. Cognitive neuroscience

- Definition, Emergence of cognitive neuroscience, Scope,
- Perspectives on Examining the Architecture and Function of the Human Brain as a Complex System.
- The Landscape of Cognitive Neuroscience: Challenges, Rewards, and New Perspectives. Development of the Primate Cerebral Cortex. Early Development of Neuronal Circuitry of the Human Prefrontal Cortex. Unraveling the Role of Neuronal Activity in the Formation of Eye-Specific. Connections. Brain Changes Underlying the Development of Cognitive Control and Reasoning.

- Plasticity : Mechanisms of Selective Attention in the Human Visual System: Evidence from Neuroimaging. The Frontoparietal Attention Network. Spatial Deficits and Selective Attention. Selective Attention Through Selective Neuronal Synchronization

References:

- Kathy Pazdek, Applied psychology, Lawrence Erlbaum associates publishers, 2006 New Jersey.
- Matlin. M. W. (2012). Cognitive psychology.(8thed). Wiley John and Sons.
- Carroll. D. W. (2007). Psychology of language.(5thed). Brooks Cole.
- Jay T (2003) The psychology of language Prentice Hall.
- Goldstein E. (2009). Sensation and perception (8thed).Cengage Learning.
- Solso. R. L., Maclin. H. O., Maclin. M. K. (2008). Cognitive psychology.(8thed) Pearson.
- Galotti. K. M. (2008) Cognitive psychology in and out of the laboratory. (8thed). CengageLearning 2012 .
- Rabort J. Stenberg cognitive psychology 6th edition words worth cenga
- Steven J. Luck and George R. Mangun.

103: BIOPSYCHOLOGY

Learning objective: Students would get an orientation towards the dynamics of brain behaviour complexity. Each unit would deliberate on psycho physiological correlates accounting for general phenomena, individual differences, and abnormal functions of human behaviour.

Unit 1 - Brain behaviour dynamics

- Bio psychology- Nature and Scope. Methods of studying the brain – Ablation, Recording and Stimulation methods, Neurochemical methods.
- Nervous systems. – Structure and functions. Divisions - Central and Peripheral NS.
- Brain and cognitive functions – intelligence, memory, learning,
- Endocrine system – functions and effects of endocrine glands.

Unit 2 – Neuro psychology

- Neurons - Structure, types and functions of neuron. Neuronal conduction – communication between neurons, synaptic conduction
- Neurotransmitters – categories and functions.
- Neurological disorders- Tumors, Seizures, Parkinson’s disease, Huntington’s disease, Alzheimer’s disease, Multiple Sclerosis.

Unit 3 - Behaviour genetics

- Behaviour genetics: Nature and scope,
- Methods of study and research techniques,

- Chromosomal functions,
- Hereditary determinants of behaviour.
- Eugenics, genetic engineering.

Unit 4 - Evolutionary perspectives-

- Principles of Evolution – human behaviour - Reflexes, Instincts
- Environmental influences on behaviour – human and non-human species.
- Current researches in evolutionary biopsychology
- Controversial issues in evolutionary bio-psychology

Unit 5 - Psycho pharmacology

- Basic principles of psychopharmacology
- Classification of Psychotropic Medications - Antipsychotics, Antidepressants, Anxiolytics and sedatives, Mood stabilizers, Stimulants, Sedatives / Hypnotics, Miscellaneous drugs.
- Adverse Effects of Psychotropic Medications - Drug-drug interactions, Side effects, Orthostatic Hypotension, Sexual dysfunction and hyperprolactinemia, Liver/Kidney dysfunction
- Ethical issues in Psycho-pharmacology.

References:

- Neil . R. Carlson (2005) Foundations of Physiological Psychology. 6thed . Pearson.
 - David.M.Buss (2005) The Handbook of Evolutionary psychology, John Wiley and Sons.
 - Handbook of Biological Psychology – Sage publications.
 - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3031936/> - principles of psychopharmacology
 - <http://nursece4less.com/tests/materials/n075materials.pdf> - classification, effects
-

104: RESEARCH METHODS

Learning objectives: psychology being a science subject measurement and quantification is of great importance. Undertaking an empirical study, Testing the accuracy of the findings require sound knowledge about the various statistical techniques and tests. Students would get acquainted with the types of research, designs and the ways and means of analysing the data.

Unit 1 - Research Process (12 hours)

- Definitions of research, science and scientific methods, limitations of scientific research. Steps involved in research process (Formulation of a problem, Literature review, Development of a hypothesis, Research design, Sampling design, Research proposal, Collecting data, Data analysis, Report writing/ thesis writing).
- Research problem-source, selection criteria, defining, statement, delimitation
- Ethical issues for research.

Unit 2- Variables, Probability and Hypothesis testing (14 hours)

- Variables: IV, DV, control and extraneous variables.
- Hypothesis- definition, characteristics, types; Hypothesis testing
- Concept of Probability, Normal Probability Curve, Characteristics of the Curve, probabilistic estimation and limitations (Type I & type II errors).
- Concept of Statistics: parametric and non-parametric, descriptive, inferential, correlational, tests of significance, effect size, power of tests, tests for homogeneity of variance, regression, data reduction

Unit 3 Sampling and Data Collection (10 hours)

- Sampling design: Meaning, probability and non-probability sampling methods and determinants of sample size.
- Data collection methods: Observation: naturalistic, laboratory, participant and non-participant, structured and unstructured; interview: structured and unstructured, questionnaires: close-ended and open-ended, scales.

Unit 4- Research designs (16 hours)

- Part A: Experimental Designs: True Experimental (Between group, within groups, factorial),
- Part B: Quasi-experimental Designs: (Designs with control group, designs without control group, designs to measure developmental changes)
- Part C: Non-experimental (Observational, survey, correlational) ,
- Other ways of classifying Research Designs: Designs based on the purpose of the study- Exploratory research designs, Descriptive designs, Explanatory designs, Experimental designs; Designs classified by their intended use- Interventions designs, Evaluation designs, Action research designs; Designs indicating the effects of time- Cross sectional research designs, Longitudinal research designs

Unit 5- Report Writing (8 hours)

- General Guidelines, Need for a report, Types of Writing, Purpose of writing, Avoiding plagiarism, Organizing information, Report writing in APA format, references in APA format

References:

- Best, J.W. & Kahn, J.V (2005). Research in education. Prentice-Hall of India.(9th ed, EEE).
- Bordens, K.S. & Abbot, B.B. (2002) Research designs and methods: A process approach. McGraw-Hill(5th ed).
- Cozby, P.C. (1997) Methods in behavioral research. Mayfield Publishing company.(6th ed).
- Creswell, J.W. (2007) Qualitative inquiry & research design. Sage publications (2nd ed)
- Compilation of articles for qualitative research.
- Heppner, P.P, Wampold, B.E. & Kivlighan, D.M. (2008). Counseling research. Brooks-Cole.
- Kothari, C.R. (2003) Research methodology: Methods and techniques. WishwaPrakashan(2nd ed).
- McBurney, D.H. (2001) Research methods. Thomson Wadsworth (5th ed).
- Publication Manual of the American Psychological Association (6thed).

PRACTICALS 1: Experimental Psychology.

- a. Experiments on sensation and perception.
- b. Experiments on learning and memory.
- c. Experiments on higher cognitive functions.

PRACTICALS 2: Computer Applications.

- Using MS Word to create and edit documents:

Opening MS Word, Font, centring, justification, right and left alignment, cut, copy, paste, bold, italics, underline, all caps, small caps, strike through, upper case, lower case, sentence case, title case, subscript, superscript, headings and levels, running head and header, page numbers and footer, inserting pictures, smart art and shapes, margins, new page, new section, inserting symbols, inserting tables, inserting charts, views (print view, outline view), importing and exporting to MS Excel, printing documents; renaming files in the file explorer, copying and moving files to other spaces in the hard drive and other drives.

- Using MS Excel to create and edit spread sheets

Rows and columns, entering data, copying and auto fill of data, formulae, creating charts, formatting cells, creating tables, views (print view) importing and exporting to MS Word and SPSS, printing spread sheets, renaming files in the file explorer, copying and moving files to other spaces in the hard drive and other drives.

- Using MS Power point to create and edit presentations
New slides, title slide, body slide, two column slides etc, creating backgrounds, inserting pictures, charts, drawing objects, and smart art; inserting simple animations, inserting slide transitions, outline view and slide sorter view, merging two presentations, creating handouts, creating .rtf files to export to MS Word, renaming files in the file explorer, copying and moving files to other spaces in the hard drive and other drives.

- Using any one statistical package SPSS
Data entry and coding, Importing data to SPSS from MS Excel, Calculating Mean, Median and Mode, and, Standard Deviation, Scatter-plot, Pearson's Product Moment Method, Spearman's Rank order Method, t-test (independent & paired), ANOVA, MANOVA, Chi-square, Mann Whitney U test, Median test, Wilcoxon test, Sign test, Kruskal-Wallis test, Friedman test, Interpreting the output generated by SPSS, Exporting to MS Word, MS power point, and creating PDF and html formats.

- Interpretation of output drawn from the statistical package.
-

SOFT CORE PAPER

105: PSYCHOMETRY

Learning objective: To orient the students to the concept of measurement and test construction, to enable students to create tests that are reliable and valid and develop norms, to enable students to use appropriate tests in various situations.

Unit 1 – Measurement and Testing Basics (12 hours)

- Part A: Measurement: meaning, differences between psychological and physical, properties of scales and measures, Levels of measurement, Likert scale; Uses of scales
- Part B: Testing: Nature, meaning and use of psychological tests. Characteristics of a good Psychological test. Ethical issues in use of tests.

Unit 2 – Test Construction (12 hours)

- Item response theories, Item writing, item difficulty, item discrimination, item validity, item analysis.
- Development of norms, interpreting test scores.
- Reliability and validity of tests – types and methods.

Unit 3 – Application of Tests (12 hours)

- Types of tests. Individual tests, tests for special populations, group testing; self-report, projective testing and behavioural measures; speed and power tests, verbal, nonverbal and performance tests; culture fair and culture free tests
- Using tests in Educational, occupational and clinical-counselling settings

References:

- Anastasi A & Urbina S (2005). Psychological testing. (7th ed)
 - Cohen. R. J., Swerdlik. M. E., Phillips. S. M. (1996) Psychological testing and assessment: an introduction to tests and measurements (3rd ed)
 - Cozby. P. C. (1997) Methods in behavioural research (6th ed)
 - Cronbach. L. J. (1990) Essentials of psychological testing (5th ed)
 - Heiman. G. W. (1999) Research Methods in Psychology 2nd ed)
 - Kaplan. R. M. & Saccuzzo. D. P. (2005) Psychological testing: principles, applications, and issues (6th ed).
-

M.Sc- II SEMESTER

201: PERSONALITY PSYCHOLOGY

Learning objective : The primary objective of the study of psychology is to understand individual differences. Personality is one of the variable that accounts for individual differences in the manner in which people understand and react to the various life experiences. Understanding of personality is essential across the stages of development in shaping the personality for its optimal functioning.

Unit 1 – Nature, Dimensions and measurement of personality

- Definition and Approaches to study personality, The trait approach to personality,
- Methods of personality assessment,
- Structural models of personality,
- The Five-Factor Model of personality traits.

Unit 2 – Personality in the social and cultural context

- The storied construction of personality,
- Personality and social support processes, Social pain and hurt feelings
- Personality in cross-cultural perspective, Culture and personality
- Personality and politics

Unit 3 – Personality in the educational context,

- Personality development of students,
- Factors influencing personality development

Unit 4 – Personality in the work context,

- Personality and personnel selection,
- Personality correlates of job performance ,

Unit 5 – Personality and Criminal psychology: Crime and Personality, Personality Modification in the criminal justice system.

References:

- Cambridge Handbook of Personality.
- Personality Psychology. Domains of knowledge about Human Nature, Randy.J.Larsen, David M Buss.2nd edition
- Theories of Personality, Hall and Lindsey.

202: COUNSELLING AND GUIDANCE

Learning objective: The professional services of a psychologist in the modern era has undergone a paradigm shift from clinical orientation to enhancing quality of life. Professional counselling approach and guidance based on objective, scientific guidelines would ensure the quality of life. The paper highlights on the principles, theories and the requirements for an effective counselling psychologist.

Unit 1. Basic concepts, types and scope, principles of guidance and counselling

Unit 2. Theories of guidance and counselling – Roger, Erikson, Adler, Skinner

Unit 3. Qualities of a counsellor – personal and professional, ethical considerations

Unit 4. Counselling process – steps and procedures of counselling

Unit 5. Areas of counselling – educational, vocational, avocational, social, health, personal and moral

References:

- Nayak A.K. 2007 Guidance and counselling APH Publishing New Delhi
- Barki B.G. & Mukhyopadhyay B 2008 Guidance and counselling A Manual 10th reprint Sterling
- Corey G 2008 Theory and practice of group counselling 7th edition Stanford :Cengage Learning.

203: CHILD PSYCHOPATHOLOGY

Learning Objective: The paper provides the student with a thorough understanding of the causes, features and therapeutic intervention on developmental psychopathology.

Unit 1: Introduction to Developmental Psychopathology

- Models of child psychopathology; Development and Expression of psychopathology;
- DSM criteria of child psychopathology;
- Assessment, Diagnosis and Treatment strategies;
- Research on child Psychopathology;
- An overview of child psychopathology in India

Unit 2: Developmental disorders diagnosed first in infancy, childhood, and adolescence

- Mental retardation; Learning disorders
- Motor skills disorder: Developmental Coordination disorder
- Communication disorders: Expressive language disorder; Mixed Receptive-Expressive language Disorder; Phonological disorder; Stuttering

Unit 3

- **Pervasive Developmental Disorders:** Autistic disorder; Rett's disorder; Childhood Disintegrative disorder, Asperger's disorder; Pervasive Developmental Disorder Not Otherwise Specified.
- **Attention-Deficit and Disruptive Behaviour Disorders:** Attention-Deficit/Hyperactivity Disorder; Conduct disorder; Oppositional Deviant Disorder; Attention-Deficit/Hyperactivity Disorder Not Otherwise Specified; Disruptive Behaviour Disorder Not Otherwise Specified
- **Feeding and Eating Disorders of Infancy or Early Childhood:** Pica; Rumination Disorder; Feeding Disorder of Infancy or Early Childhood.

Unit 4

- **Tic Disorders:** Tourette's disorder; Chronic Motor or Vocal Tic Disorder, Transient Tic Disorder.
- **Elimination disorders:** Encopresis, Enuresis,
- **Other disorders of Infancy, childhood and adolescence:** Separation Anxiety disorder, Selective mutism, Reactive Attachment Disorder of Infancy or Early childhood; Stereotypic Movement Disorder

Unit 5

- Mood disorders and Suicide; Schizophrenia; Anxiety disorders
- **Special Areas:** pathological aspects of Day care, Foster care and adoption; Physical abuse, Sexual abuse and Neglect of the child; Identity problem and Borderline disorders in adolescence

References

- American Psychiatric Association (2000). *Diagnostic and Statistical Manual of Mental Disorders: -IV-TR*. Washington, DC: APA Press.
- Mash, E.J. & Wolfe, D.A. (2007). *Abnormal Child Psychology* (4th edition).
- Achenbach, Thomas, M. (1982). *Developmental Psychopathology*. 3rded. New York: Wiley. John B Sons, Inc
- Heward W L (1996). *Exceptional children*. 5th Ed. Ohio: Prentice Hall
- Kaplan, H.I. & Sadock, M.D. (1995). *Comprehensive Textbook of Psychiatry/VI* (Vol I & II, 6th Ed) (edited) .Baltimore: Williams & Wilkins.
- Mash E. & Wolfe, D. A, (1998), *Abnormal Child Psychology*, New York; Addison, Wesley
- Reinhardt, Helmut & Schmidt, Martin.H.(1992). *Developmental psychopathology*. New York: Hogrefe & Huber Publishers
- Wenar, Charles. (1994). *Developmental Psychopathology from Infancy through Adolescence*. McGraw-Hill -International Ed

- Wiener J M (1999) (Ed) Textbook of Child and Adolescent Psychiatry. American Psychiatric Press.

204: QUALITATIVE RESEARCH METHODS

Learning objective: This paper provides students with a critical understanding of qualitative research methods in Psychology. The focus of this paper is also to use qualitative methods in conjunction with quantitative methods and independently. The hands on experiences will help the students to design qualitative studies and the importance of qualitative research in Psychology.

Unit 1 - Nature of qualitative research:

- The history of qualitative research; The Philosophy of qualitative research; Characteristics of qualitative research; The main steps in qualitative research;
- Reliability and validity in qualitative research;
- Critique of qualitative research: Application of qualitative research methodology to research in Psychology

Unit 2 - Designing Qualitative Research:

- Theory and concepts; Conceptual mapping; research questions; Defining the case;
- Sampling and Instrumentation. Mixed methods;
- Design a qualitative study to suit a Psychology research

Unit 3 –Paradigms of Qualitative research:

The Paradigm of Qualitative research methods – Ethnography; Participant Observation; Interviews in qualitative research

Unit 4 – Qualitative Research Techniques:

Focus Group Discussion; Conversation Analysis; Discourse Analysis; Life history method; Document based methods

Unit 5 - Data Analysis:

- Strategies of qualitative data analysis: Analytic induction; Grounded theory. Steps in qualitative data analysis - Coding, Within-case analysis, Cross-case analysis, Matrix displays; Triangulation;
- Ethical issues in Analysis;
- Computers in qualitative data analysis

References:

- Banister, P., Burman, E., Parker, I., Taylor, M., & Tindall, C. (1998). *Qualitative Methods in Psychology: A Research Guide*. Buckingham: Open University Press.
- Bryman, A. (2004). *Social Research Methods* (2 ed.). Oxford: Oxford University Press.
- Denzin, N. K., & Lincoln, Y. S. (1994). Introduction: Entering the field of qualitative research. In N. K. Denzin & Y. S. Lincoln (Eds.), *Handbook of Qualitative Research*. Thousand Oaks, Calif.: Sage Publications.

- Denzin, N. K., & Lincoln, Y. S. (2003). Introduction: The discipline and practice of qualitative research. In N.K.Denzin&Y.S.Lincoln (Eds.), *Strategies of Qualitative Inquiry*. Thousand oaks: Sage Publications.
- Frost, N. (2012). *Qualitative Research Methods in Psychology: Combining Core Approaches*. Middlesex: Open University Press.
- Glaser, B. G., & Strauss, A. L. (1967). *The Discovery of Grounded Theory*. Chicago: Aldine Publishing Company.
- King, G., Keohane, R., & Verba, S. (1994). *Designing Social Inquiry*. Princeton: Princeton university press.
- Miles, M.B & Huberman, A. M. (1994). *Qualitative Data Analysis* (2nd Ed). Sage Publications: Thousand Oaks.
- Pidgeon, N., & Henwood, K. L. (1996). Grounded theory: practical implication. In J. T. E. Richardson (Ed.), *Handbook of Qualitative Research Methods For Psychology and Social Sciences*. United Kingdom: The British Psychological Society.
- Silverman, D. (2001). *Interpreting Qualitative Data: Methods for Analysing Talk, Text, and Interaction* (2 ed.). London: Sage Publications.
- Travers, M. (2001). *Qualitative Research Through Case Studies*. London: Sage Publications.

PRACTICALS 205 : Child Assessment and Intervention.

- Assessment of cognitive abilities
- Assessment of personality
- Screening and diagnostic tools
- Intervention strategies

PRACTICALS 206: Project Work.

SOFT CORE PAPER

207: THEORIES OF LEARNING

Learning objective: Learning is essential for adjustment to one's life. Knowledge of principles and theories of learning for a psychologist is essential in bringing about desirable changes in his/her clients. Hence, this paper throws light on application of learning theories in the human context.

Unit 1 – Nature of Learning Theories, Need for a theory, Variables, Laws of learning, Problems and issues, determinants of learning, applications of learning research.

Unit 2 – S-R Theories: Pavlov, Guthrie, Thorndike, Harlow, Skinner, Current status of research and applications.

Unit 3 – Drive Reduction Theories: Hull, Mowrer, Spence, Miller. Current status of research and applications.

Unit 4 –Cognitive Theories: Tolman, Gestalt theories- Kohler, Koffka, Current status of research and applications.

Unit 5– Learning in the educational context- learning styles, academic achievement, determinants of academic performance.

References:

- Contemporary Theories of Learning- Learning theorists ... in their own words Edited by Knud Illeris, routledge
- Accelerated learning handbook Dave Meier 2000 McGrawHill
- Introduction to theories of learning Sahakian
- Theories of learning Herganhan 9th Edition PearsonPrentice Hall
- Theories of learning Hilgard and Bower 5th Edition
- Educational Psychology books.

M.Sc -III SEMESTER

301: ORGANIZATIONAL BEHAVIOUR I - A MICRO PERSPECTIVE

Learning objective: Organisational behaviour is one of the branches of psychology with an objective of understanding people at work place. The factors related to individual differences like perception, learning, personality, motivation, etc., would contribute to satisfaction and effectiveness at both individual and organisational level. The dynamics of these factors are introduced to the students through this paper.

UNIT – 1: INTRODUCTION TO ORGANIZATIONAL BEHAVIOUR

- Nature of organizational behaviour, importance and fundamental assumptions. Historical background, OB to Globalization and Diversity. OB to Technology. OB to people's Changing Expectations.
- Organizational Justice: Nature and Strategies. Ethical Behaviour in Organizations: Nature, Meaning. Individual Differences in Cognitive Moral Development, Situational Determinants of Unethical Behaviour, corporate ethics programmes. Beyond Ethics: corporate Social Responsibility.

UNIT – 2: PERCEPTION AND LEARNING:

- Social Perception and Social Identity. Attribution Process. Perceptual Biases: Systematic Errors, Stereotyping. Perceiving others: Organizational Applications- Performance appraisal.
- Learning: Operational Conditioning- Learning through Rewards and Punishments. Training-varieties of training, principles of learning. Organizational behaviour Management.

UNIT –3: INDIVIDUAL DIFFERENCES: PERSONALITY, SKILLS AND ABILITIES, STRESS

- PERSONALITY: Nature and Measurement. Big Five dimension. Work related aspects of Personality- Achievement motivation.
- ABILITIES AND SKILLS: Intelligence, physical abilities, social skills.
- STRESS: Nature, Stressors in organizations, Cognitive appraisal, Bodily responses. Causes and Effects of stress. Reducing Stress.

UNIT – 4: WORK - RELATED ATTITUDES: PREJUDICE, JOB SATISFACTION AND ORGANIZATIONAL COMMITMENT

- ATTITUDES: Nature and Definitions, essential components.
- PREJUDICE AND DISCRIMINATION: Meaning Stereotypes, strategies to overcome workplace prejudice.
- JOB SATISFACTION: Nature and Theories. Consequences of Job Satisfaction, Reduction of job dissatisfaction.

- ORGANIZATIONAL COMMITMENT: Attitude towards Companies, varieties of organizational commitment.

UNIT – 5: MOTIVATION IN ORGANIZATIONS

- Nature, Components, motivates by enhancing fit with an organization. Motivating by setting Goals, by Equitable, by Altering Expectations, by structuring jobs.
- Personality and values: values and ethical behaviour at work place
- Emotions and moods

References:

- Jerald Greenberg: Behaviour in Organisations. 10th ed. PHI Learning Pvt Ltd. ND 2012
- Jerald Greenberg and Robert A. Baron: Behaviour in Organisations. 9th ed. PHI Learning Pvt Ltd. ND 2009
- Fred Luthans: Organisational Behaviour. 12th ed. McGraw-Hill International ed.
- Stephen P. Robbins: Organisational Behaviour: Concepts, Controversies, Applications. PHI

302: PSYCHOPATHOLOGY

LEARNING OBJECTIVE: This paper aims to give a broad idea of the field of clinical psychology and to familiarize the student with the psychopathological aspects of human behavior.

Unit 1: Introduction. Definition, historical review. Changing attitudes and concepts of mental health and illness. Current views. Models for understanding psychopathology. Psychoanalytical, behavioral, interpersonal and humanistic. Need for and types of classification of mental disorders. DSM and ICD systems of classification.

Unit 2: Anxiety and stress related disorders: Causes, types and clinical features of anxiety disorders. GAD, panic, phobic disorders. Obsessive compulsive disorders.

Stress related disorders. Causes, types and clinical features of acute and PTSD.

Unit 3.Mood and schizophrenic disorders.Causes, types and clinical features of mood disorders (manic, depressive, bipolar mood disorders).Causes, types and clinical features of schizophrenia, Delusional disorders.

Unit 4: Somatoform and dissociative disorders. Causes, types and clinical features of somatisation disorder, hypochondriac disorders.

Personality disorders, Causes, types and clinical features of paranoid, schizoid personality, antisocial.

Unit 5: Substance abuse - Causes, types and clinical features of alcohol and substance abuse.

Brain impairment.Dementia, Amnestic syndromes.Pervasive developmental disorders.Causes, types and clinical features of mental retardation and Autism.

References:

- Carson, R. C. Pincka, S., & Butcher, I N. (1999). Abnormal Psychology and Modern Life. 11thed. New York: Addison Wesley Longman Inc
- Comer., R. J. (1999). Abnormal Psychology. New Jersey: W. H. Freeman Co.
- Davison, G. C. & Neale, J. M. (1998). Abnormal Psychology, 7th ed. New York: John Wiley & Sons.

303: PSYCHOLOGICAL THERAPIES

LEARNING OBJECTIVE: This paper aims at providing adequate information regarding the psycho therapeutic techniques for enhancing the psychological well-being of individuals.

Unit 1.Introduction to interventions.Definition of psychotherapy.Goals of intervention.Professional issues- training, ethical issues, personal characteristics of therapists, future of therapy.

B:Psychotherapy in India. Development and current status.Yoga and Buddhistic traditions in therapy.

Unit 2. Psychoanalytical therapies, Brief dynamic therapies, Indications and evaluation.

B: Neo Freudian approach, Ego analytical therapies. Current status and evaluation.

Unit 3. Humanistic approaches- Rogerian and Gestalt therapy

B: Group approaches. Nature of group therapy. Utility evaluation. Family therapy, general types, need and application.

Unit 4. Behavior therapy. A: Techniques based on Classical, operant and modeling theories. B: Cognitive behavior therapy. Therapy based on work of Ellis, Beck and Meichenbaum.

Unit 5. Community based intervention. Difference between therapeutic and community health models. Concepts of Prevention, Crisis Intervention and Rehabilitation.

B: Special issues- Intervention in Mental retardation, Learning disability, Autism, school problems of children.

References:

- Aveline. M. & Shapiro. D.A. (1995) Eds, Research for psychotherapy practice. Wiley.
- Bellack, A.S., Hersen M. & Kazdin, A.E. (1983). International handbook of behavioural modification and therapy. New York: Plenum Press.
- Bergin, A.E. & Garfield, S.L. (1994). Eds. Handbook of psychotherapy & behavioural change. 4ed. NY: Wiley.
- Jones, C. C. (1993). Family Systems therapy: Wiley.
- Lane, D & Miller, A (1992). Eds. Child & Adolescent therapy. A handbook. Milton Keynes Open Uni. Press.
- Norcross. J.C (1980). Handbook of psychotherapy integration (Ed.) New York: Basis books
- Spiegler.M.D. (1997). Contemporary Behaviour Therapy. New Delhi, Sage Publications.
- Srinivasa Murthy & Barbara. J. Buras. (1992). Eds. Community mental health- proceedings of the Indo-US symposium. Bangalore: NIMHANS
- Steven Jay Lynn & John P, G. (1985). Contemporary psychotherapeutic models and methods, Ohio, Charles E. Merritt.

- Wolberg. L.R. (1989). The technique of psychotherapy. Vol. I & II. London. Warburg and Heinemann.

PRACTICALS 305: Clinical assessment and intervention.

- Assessment of cognitive abilities
- Assessment of personality
- Screening and diagnostic tools
- Intervention strategies

PRACTICALS 306: Assessment and intervention in organisations.

- Assessment of cognitive abilities
- Assessment of personality
- Screening
- Job analysis, case studies, management games

OPEN ELECTIVE

304: FOUNDATIONS AND APPLICATION OF PSYCHOLOGY.

Learning objective: Psychology is one of the popular subjects having wide range of applications. However, myths and misconceptions related to individual differences are common that need to be addressed. The objective of the paper is to alleviate these and also towards application of psychological principles in understanding and enhancing self efficacy.

1. An Introduction to Psychology: Meaning, Branches of Psychology; Myths and Misconceptions of Psychology; Role of a Psychologist.
2. Psychology applied to the Social World: Interpersonal Communication- Non-verbal communication, effective communication, developing an assertive communication style; the problem of prejudice, forming impressions about others; the impact of Social Pressure.
3. Psychology applied to Education: Learning- Principles of Learning and Memory; Types of learning and Memory; Techniques to enhance learning and memory.
4. Psychology applied to the field of Work and Health: Facing an Interview; Choosing the right person to the right job, Occupational Stress- Coping; Health issues related to stress, Work-life Balance.

References:

- Wayne Weiten and Margaret A. Lloyd, "Psychology Applied to Modern Life-Adjustment in the 21st Century". 7th Edition, Thomson Wadsworth.
- Robert S. Feldman, "Understanding Psychology", 6th edition.
- Atkinson and Atkinson, "Introduction to Psychology".

M.Sc - IV SEMESTER

401: ORGANIZATIONAL BEHAVIOUR II - A MACRO PERSPECTIVE

Learning objective: The paper emphasises on understanding the interpersonal dynamics at the workplace contributing to organisational performance and effectiveness.

UNIT – 1: COMMUNICATION IN ORGANIZATION

- Nature of communication. Process, Purpose and levels of organizational communication. Verbal and non-verbal communication,
- Computer mediated communication, formal and informal communication. Individual differences in communication.
- Improving communication.

UNIT – 2: Decision Making

- Meaning and Model of Decision-making process, Organizational decisions, factors affecting Decisions in organizations.
- Individual decisions – imperfect nature of individual decisions.
- Group decisions: techniques for improving effectiveness of decisions.

UNIT – 3: LEADERSHIP

- Nature and characteristics. Trait approach, Leadership behaviour.
- Contingency theories- LPC theory, situational and path-goal theory.
- Leadership development.

UNIT – 4: ORGANIZATIONAL CULTURE

- Nature and characteristics. Creating, Transmitting and changing organizational culture.

UNIT –5: ORGANIZATIONAL STRUCTURE AND DESIGN

- Basics dimensions. Departmentalization, organizational designs. Inter-organizational designs.
- Understanding work teams groups and teams, types of teams, team building, high performance teams importance of interpersonal skills
- Organizational Change and Development
- Organizational Effectiveness

References:

- Jerald Greenberg: Behaviour in Organisations. 10th ed. PHI Learning Pvt Ltd. ND 2012
- Jerald Greenberg and Robert A. Baron: Behaviour in Organisations. 9th ed. PHI Learning Pvt Ltd. ND 2009
- Fred Luthans: Organisational Behaviour. 12th ed. McGraw-Hill International ed.

- Stephen P. Robbins: Organisational Behaviour: Concepts, Controversies, Applications.PHI

402: SOCIAL AND COMMUNITY PSYCHOLOGY

Learning Objective: This course enables students to understand the concepts and theories of social behavior and think more about social phenomenon. The students learn about social systems and individual well-being in the community contexts. This also helps the students to learn more about Indian community behavior.

Unit 1

- a) Social Psychology: Introduction to social psychology; Process of socialization; Group influence; Group dynamics; Social perception; Attitudes
- b) Community Psychology: Introduction to community psychology; factors underlying emergence of Community psychology, Principles of Community psychology. Concept of prevention. Theory and research in Community psychology - ecology, epidemiology, general systems theory, evaluation research.
- c) Social behavior in communities: Socialization processes, Internalization of social norms and values, Role of institutions (ascriptive institutions such as Family, Caste, Class and Religion; role based institutions such as School, political parties and market mechanisms) in reinforcing societal values.

Unit 2

- a) Aggression: Theories of aggression; Types of aggression; Consequences of aggression; Controlling aggression
- b) Violence: Theoretical models for understanding violence; Categories of violence; self-directed violence (Suicide); domestic violence, sexual violence, collective violence
- c) Aggression and violence in India: Extent, Variation across social groups and communities.
- d) Psychological interventions for aggression and violence.

Unit 3

- a) Crime: Theories of criminal behavior; Prevention of crime, rehabilitation of criminals, role of psychologists; Juvenile delinquents
- b) Problem of alcoholism, Definition, types, theories of alcoholism, effects, methods of treatment, prevention and rehabilitation.
- c) Gender: Difference between sex and gender, gendered patterns of institutions

- d) Emerging challenges: Trans-gender issues, prostitution, same-sex marriage,

Unit 4

- a) Unemployment: Problem of unemployment; defining unemployment, causes and types, effects of unemployment, role of psychologists in solving the problem
b) Poverty and deprivation: - definition, types, causes; Measuring poverty: Absolute and relative poverty, human development index; psychological studies of effects of poverty, Social exclusion, Culture of poverty; poverty alleviation programmes

Unit 5

- a) Social Change: Definition and dynamics of social change; role of social movements in bringing changes; Mob and community behavior in response to social problems
b) Law and Psychology: Socio-psychological origins of law; Access to justice through psychological interventions; Human rights

References:

- Alcock, P. (1997). *Understanding Poverty* (2nd Ed). Great Britan: Palgrave
- Bloom, B. (1984). Community mental health: A general introduction. Belmont, CA: Wadsworth.
- Davar B (1999). *Mental health of Indian Women*. New Delhi, Sage Publications.
- Dalal, A. K. & Misra, G. (2001) *New Directions in Indian Psychology*. New Delhi: Sage publications.
- Kakar, S. (1978) *The Inner world: A psycho-analytic study of childhood and society in India*. Delhi: Oxford University Press.
- Kakar, S. (1996) *Indian Identity*. New Delhi: Penguin.
- Jai Prakash, I and Bhogle S (1998). (Eds.) *Psychology and changing world*. Bangalore, prasara, Bangalore University.
- Mathew, L. (2010) "Coping with shame of poverty: Analysis of farmers in distress", *Psychology and Developing Societies*, 22 (2), pp.385-408.
- Misra G. and Nagpal A (Eds). (1999). *Psychology of poverty and disadvantages*. New Delhi. Concept Publishing Co.
- Roland, A. (1988) *In search of self in India and Japan: Towards cross-cultural psychology*. Princeton: Princeton University Press.
- Sinha G. Tripathi R C and Misra G (Eds). (1998). *Deprivation: Its Social roots and psychological consequences*, New Delhi. Concept publishing company.
- Srinivasa Murthy & Barbara. J. Buras. (1992). Eds. *Community mental health-proceedings of the Indo-US symposium*. Bangalore: NIMHANS.

403: REHABILITATION PSYCHOLOGY

Learning objective: Disability sector is one of the areas that has been especially overlooked by social scientists. Professional issues regarding understanding the disabled, its causes, concerns, management and intervention need a scientific approach. The present paper aims at providing the same.

Unit I- Nature and Scope of Rehabilitation psychology

- Definition, historical perspective, scope and methods, Functions of Rehabilitation Psychology: General functions and special functions, History and Philosophy of Disability Rehabilitation
- Goals and objectives of rehabilitation, Multi-disciplinary approach to rehabilitation: Biological, medical, psychological, educational and social aspects.

Unit II -Disabilities

- Disability - Concept and definitions, Classification of various disabilities, Incidence and prevalence
- Types of disabilities: Visual impairment, Hearing and speech impairment, Locomotor disability,
- Mental retardation, Cerebral palsy, Autism , Mental illness Learning disabilities, Multiple handicaps
- Etiological factors; pre-natal, natal and post-natal, chromosomal aberrations and genetic errors
- Prevention of disabilities

Unit III- Personality Development of Disabled Persons and intervention

- Factors influencing personality development of disabled individuals, Life span development of people with disabilities, Assessment of personality of disabled individuals, Screening and early identification of people with developmental disabilities. Social, Psychological Perspective in Rehabilitation Psychology.
- Early intervention: definition, assessment and strategies for intervention. Intervention packages for various disabilities. Services and programmes for disabled individuals and their families
- in India
- Special education: – aims, objectives and functions, Emerging trends in special education. Educational assessment and evaluation for persons with disabilities, Educational technology for disabled

Unit IV - Psychological Intervention

- Planning Intervention: Psychoanalytic Approach, Learning Theories and Strategies, Planning and Designing, Learning Situations, Counselling Strategies. Therapeutic services and Restorative techniques. Designing Training Programmes for Professionals: Training Need
- Analysis, Implementation of Training Programmes Monitory and Impact Studies.

Unit V - Organization & Management

Evolution of Non-Government Organizations Background Characteristics of Organization
Capacity Building of Non-Government Organizations

References:

- Diverse Populations, Volume 9. Elsevier Science, Pergamon.
- Alan Hilton & Ravic Ringlaben, 1998. Best and Promising Practices in Developmental Disabilities. Pro-Ed, Texas.
- Ali Baquer & Anjali Sharma, 1997. Disability: Challenges Vs Responses.
- Concerned Action Now, New Delhi.
- Gerald Hales, 1996. Beyond Disability: Towards an Enabling Society.
- SAGE Publications, New Delhi.
- John Swain, Vic Finkelstein, Sally French & Mike Oliver, 1994. Disabling Barriers – Enabling Environments. SAGE Publications, New Delhi.
- Jose Murickan & Georgekutty, 1995. Persons with Disabilities in Society.
- Kerala Federation of the Blind, Trivandrum.
- Kundu, C.L., 2000. Status of Disability in India – 2000. Rehabilitation Council of India, New Delhi.

404: POSITIVE PSYCHOLOGY

Learning Objective: The course enables the students to look at the strength-based part of psychology. The paper helps the students to explore what makes people happy. The overall focus of the course is to equip students to enhance subjective well-being. The course also equips students to be familiar with research that supports the concepts and application of positive psychology, especially in the Indian context.

Unit 1- Positive Psychology: An Introduction;

- The role of positive emotions in Positive psychology: The Broaden and Build Theory of Positive Emotions;
- Basic areas of Positive psychology;
- Western and Eastern views on Positive psychology and its application; Positive Psychology in India;
- Research approaches to study positive psychology

Unit 2 - Happiness and well-being:

- Defining happiness; Determinants of happiness; Gender difference in happiness; Love and happiness; Antecedents and Consequences of Happiness. Measuring happiness.
- Happiness across Cultures;
- Happiness and well-being in Indian culture.

Unit 3 -Positive relationships and well-being:

Meaningful relationships; Love and belongingness; Love and kindness; gratitude, forgiveness and altruism

Unit 4

- Religion, Spirituality and Well-being: Role of religion and spirituality to maintain subjective well-being; A special focus to Indian spirituality and well-being.
- Character strengths and virtues: Classification of strength; Positive psychology approaches to virtues; Virtues and work. Virtues in the Indian culture

Unit 5

- Resilience, Trauma and Subjective well-being:
- Resiliency applications; Resiliency skills; Resiliency factors; Positive parenting and resiliency factors. Resilience in Indian culture.
- Future trends in Positive psychology.

References:

- Argyle, M. (1999). Causes and correlates of happiness. In D. Kahneman, E. Diener & N. Schwarz (Eds.), *Well-Being: The foundations of Hedonic Psychology* (pp. 353-373). New York: Russell Sage Foundation.
- Argyle, M. (2001). *The Psychology of Happiness*. East Sussex: Routledge.
- Argyle, M., & Martin, M. (1990). The psychological causes of happiness. In F. Strack, M. Argyle & N. Schwarz (Eds.), *Subjective Well-being: An Interdisciplinary Perspective* (pp. 77-100). Oxford: Pergamon Press.
- Kahneman, D. (1999). Objective happiness. In D. Kahneman, E. Diener & N. Schwarz (Eds.), *Well-Being: The foundations of Hedonic Psychology* (pp. 3-25). New York: Russell Sage Foundation.
- Myers, D. G. (1999). Close relationships and quality of life. In D. Kahneman, E. Diener & N. Schwarz (Eds.), *Well-Being: The foundations of Hedonic Psychology* (pp. 374-391). New York: Russell Sage Foundation.
- Seligman, M (1990). *Learned Optimism*.
- Seligman, M. (2002) *Authentic Happiness*. New York, Free Press
- *Handbook of Positive Psychology*, 2002 Snyder & Lopez (Eds.): Oxford
- Peterson, C. (2006) *A Primer in Positive Psychology*. New York, Oxford University Press
- Myers, D. G. (1992). *The pursuit of happiness: Discovering the pathway to fulfillment, wellbeing, and enduring personal joy*. New York: Avon.

PRACTICALS 405:ALTERNATIVE HEALING TECHNIQUES.

Meditation

Acupressure

Acupuncture

Indigenous relaxation techniques

PRACTICALS 406: DISSERTATION

101 BASIC COGNITIVE PROCESSES

Objectives

To learn about the mental processes involved in the acquisition, storage, retrieval and use of knowledge. The three main perspective of cognitive psychology that now defines the discipline: experimental cognitive psychology: cognitive science with its emphasis on computational cognitive modeling, and cognitive neuropsychology with its focus on cognition following brain damage will be considered. The critical components of the cognitive system including attention, perception and memory, and their application in the more specialized areas of language, categorization, problem solving and creativity will be focused upon. The cognitive approach has wide spread influence on other areas of psychology as well as interdisciplinary areas. Understanding these processes will therefore give the students a holistic view of psychology and help students understand human psychology better.

Unit 1. Cognitive Psychology - An introduction:

History- nature- current status[including cognitive and computational neuroscience]- future trends and issues, Basic concepts in cognitive psychology: Mental representations- codes- medium- characteristics of human information processing: (feature analysis, hierarchical organization, bottom up vs top down processing, parallel vs serial Processing)

Unit 2. Attention:

Theories of attention (bottleneck theories, Schneider and schiffirin's automated vs controlled processing, Treisman's feature integration theory); model of attention- alerting mechanisms, conscious monitoring procedures; automatization of attention, divided attention, selective attention, divided attention, selective attention, sustenance of attention, neurocognition of attention.

Unit 3. Perception:

Introduction- principles of perception in all modalities- vision [brightness, colour, form, location], audition [pitch, intensity, location], somatosensory [touch, pressure, pain, temperature] proprioceptive, visual pattern recognition—(template matching, prototype models, distinctive features models, computational approach); nature and factors affecting visual pattern recognition.

Imagery- characteristics of mental images, cognitive maps

Unit 4. Memory:

Types- Sensory Memory- Iconic memory; Echoic memory: Working Memory, Long Term Memory – determinants, autobiographical memory, mnemonics, Models of memory- (Atkinson- Shiffrin model, levels of processing approach, Tulvin's model. Parallel Distributed processing approach), Semantic memory- Structure [feature comparison model, network model, exemplar approach, prototype approach], schemas, metamemory.

Unit 5. Consciousness:

History, functions, cognitive psychology and consciousness, consciousness as a scientific construct modern theories of consciousness.

102 Biological processes - 1

Unit 1. Introduction to biological basis of behavior:

Nature and scope of physiological psychology, Methods of study, Research techniques.

Unit 2. Behaviour genetics:

Nature and scope. Methods of study and research techniques, Genetic principles and mechanism of animal and human behavior, genetic correlates of behavior, eugenics, genetic engineering.

Unit 3. Nueronal functions:

Structure and type of neurons, conduction and transmission. Structural chemical-electrical components of nervous system. Major divisions and functions of nervous system/central, autonomic nervous systems.

Unit 4. Correlates of internal regulatory bodily states:

Body temperature, digestive mechanisms, mechanisms of pain, balance and endocrinal systems.

Unit 5. Mechanism of sensation, perception, and movement:

Structural, chemical, electrical and genetic correlates of vision, audition, olfaction, gestation, and tactile sensation- perceptual process- Motor Functions.

103 Psychometry and Research Methods

Objectives: This paper is framed with an objective of introducing measurement techniques, Research methods and Psychological testing.

Unit 1. Measurement

Levels of Measurement, Scaling methods, Antecedent of modern testing. Nature, meaning and use of psychological tests. Characteristics of a good psychological test. Ethical issues in use of tests.

Unit 2. Test Construction

Item writing, item validity, item analysis, norms development, meaning of test scores, reliability and validity- types and methods.

Unit 3. Application of tests

Educational, occupational and clinical – counseling applications. Types of tests. Individual tests, tests for special population, group testing, self report and projective testing, Measuring interest and attitudes.

Unit 4. Research Methods

Scientific research, problem, hypotheses, variables, Process of research- planning, sample selection, data collection, analysis, interpretation, and reporting, Sources of bias in research, ethics of research.

Unit 5 Sampling theory

Probability and non probability sample, Sampling techniques and errors of sampling. Methods of data collection. Observation, interview, sociometry, meta analysis, life history, simulation and games.

104: Computer applications in Psychology

Objectives:

The objective of this paper is to introduce the students to the basic elements of computer hardware/software and to give an overview of the ways computers are used in psychology. The applications in psychology including document preparation, database management, statistical analysis, laboratory/ experimental control, simulation of behavior and cognitive processes will be focused upon.

Unit 1: Computer Fundamentals: Computer and their evolution- generations, types – (personal, mainframe, mini and super computer). Organization and working of a computer. Flow-charts, Computer architecture fundamentals (definition and their purpose) Internals – CPU, memory, motherboard, disc drives, system bus, plug in cards: Externals – I/O devices. Hardware issues: types of memory – primary (RAM, ROM) and secondary (floppy, hard disc, pen drives, CD, DVD). Various types of operating systems and their applications- Windows and UNIX operating systems. Network peripherals- modem and basic components of a network, internet issues: Advantages of networking and internet, email: Principle of file transfer, chat and remote log in: Internet resources for psychology- ERIC data base, PsychLit, Use of CD- ROMs- PsychINFO, www.pubmed.com / www.sciencedirect.com / www.scholar.google.com / www.ebsco.org

Unit.2 Applications to the field of Psychology

- a. Experimental/ Laboratory control: Use of Computers in designing experiments, Control of relevant variables (time of exposure, measurement of reaction time, presentation of materials, text/graphic images) recording of data, statistical analysis.
- b. Report writing- Data entry, statistical Analysis – SPSS, writing the report
- c. Cognitive Psychology- GPS, Artificial Intelligence, expert systems, simulation/virtual reality
- d. Clinical/child psychology: Computer mediated psychological testing, virtual psychotherapy, computer assisted counselor training, neuropsychological assessment- MRI, PET, Cognitive retraining, computerized report writing, effects of computer/internet on mental health.
- e. Industrial/organizational: Selection and placement – computer assisted assessment: job analysis and evaluation, computerized performance evaluation
- f. Educational Psychology: eLearning resources, online assessment and evaluation

Practicals: MS Word – Editing features, reviewing, preparation of reports

MS Excel- data entry

MS Power point – presentation

MS Access – database creation/searching retrieval

Internet: Setting up individual account for email, web browsing – review of literature searching for a document and downloading

SPSS – data entry and basic statistics

SPSS Some parametric and non parametric tests

Atlas TI – qualitative research analysis

105P Experiments on Perception and Psychophysics

1. Sustained and focused attention
2. Constancy Phenomena – Size/ Shape/ Colour
3. Depth Perception
4. Gestalt principles of perception
5. Phi Phenomenon
6. Visual Perception test
7. Effect of Unfilled and filled intervals on time perception
8. Subliminal perception
9. Haptic perception
10. Scaling a set of stimuli using paired comparison and rank order
11. DL for length using method of average error
12. Weber's law method of Constant stimuli
13. Absolute limen for sensory stimuli
14. Signal detection

106 Memory and Learning

1. Serial position curve
2. Levels of processing
3. semantic memory
4. Effect of schema on memory
5. priming
6. skill learning – mirror drawing/mazes
7. Verbal Working memory – N Back task
8. Visiospatial Working memory
9. Massed Vs Spaced learning
10. Conditioned reflex
11. Schedules of reinforcement
12. Paired associate learning using peterson's learning apparatus
13. Yerks multiple choice
14. Insightful learning
15. Reys auditory Verbal learning test

Note: Any 9 experiments in each paper will be selected every year by the Departmental council, with atleast four in each area

2nd semester

201- HIGHER COGNITIVE PROCESSES

Unit 1: Categorization- nature; theories, natural categories. Problem solving- definition, process; strategies and heuristics, factors influencing problem solving; Creativity – nature; creative process; characteristics of creative individuals; assessment of creative individuals; assessment of creativity, factors affecting creativity. 12 hours

Unit 2: Reasoning and Decision Making: Reasoning – nature, conditional reasoning, syllogistic reasoning; Decision making – process; heuristics (representative heuristic-availability heuristic- anchoring and adjustment- analogy- simulation); framing effect. 12 hours

Unit 3: Language: Comprehension- Understanding spoken language- process- speech perception, structure of human language- theory of constituent processing, Chomsky's transformational grammar, factors affecting listening; Reading- Process- theories of word recognition; factors affecting reading comprehension. 12 hours

Unit 4: Language production- Speaking- selecting content of speech, speech errors, gestures, social context; Writing- cognitive task involved in writing; comprehension of speaking and writing; Bilingualism- advantages and disadvantages, code switching. 12 hours

Unit 5a: Cognitive Development: Theories: Piaget's; Vygotsky; information processing perspective- development of perception, attention, memory, language, metacognition.

5b: Social perception and social cognition 12 hours

202 BIOLOGICAL PROCESS II

Unit 1. Psychophysiology of Higher mental functions: structural, chemical, electrical and genetic correlates of learning, memory and intelligence.

12 hours

Unit 2. Psychophysiology of executive functions – Structural, chemical, electrical and genetic correlates of emotions- motives and drives.

12 hours

Unit 3. Psychophysiology of affect and volition- Structural, chemical, electrical and genetic correlates of emotions- motives and drives.

12 hours

Unit 4. Psychophysiology of personality and consciousness- temperamental dimensions, personality typology- levels and states of consciousness.

12 hours

Unit 5: Psychophysiology of psychological dysfunctions – Structural, chemical, electrical and genetic correlates of organic, psychotic and neurotic disorders.

12 hours

203 EXPERIMENTAL AND PSYCHOLOGICAL STATISTICS

Objectives: This paper is framed with an objective of introducing research designs and the statistical methods for analysis of data.

Unit 1. Research designs. Meaning, principles and purpose of research design. Adequate and inadequate designs. Between group and within-group designs, factorial Designs, single case design.

Unit 2: Experimental and non-experimental research. Case study, survey, field study, ex-post facto studies. Qualitative research methodology.

Unit 3: Definition and nature of statistics. Descriptive statistics. Measures of central tendency and variability. Probability, Principles, characteristics and properties of normal probability curve.

Unit 4: Levels of significance, Tests of significance- t, ANOVA, ANCOVA and MANOVA- Parametric and non- parametric tests- differences- Chi square and median test.

Unit 5: Concept of correlation- types(Pearson's product moment correlation , Spearman Rho, Biserial and Point biserial) and uses. Regression, multiple regression. Factor and discriminant analysis- techniques, interpretation and application.

204: THEORIES OF PERSONALITY

Unit 1. Nature of personality- background and methodology- meaning, historical foundations, need for personality theory, key concepts, major components of personality theories, issues, dimensions for evaluation of personality- current status of research on personality.

Unit 2. Psychoanalytical theory- Freud's view on personality, Neo Freudian approaches – Adler, Jung, Horney, Sullivan, Rank- current status of research and applications

Unit 3. Behaviorist theories- Watson, Bandura, Wolpe, Miller, Dollard- current status of research and applications.

Unit 4. Humanistic- Phenomenological and Interpersonal approaches, Rogers, Kelly, Goldstein, Maslow, Berne- current status of research and applications.

Unit 5. Field and Factor Analytical Theory: Levin, Guilford, Eysenck, Cattell- current status of research and applications.

THINKING (Practical)

1. Concept formation
2. Categorization
3. Effect of set on problem solving- formation of set, shift of set
4. Tower of Hanoi- problem solving
5. Mazes
6. Yerkes multiple choice
7. Cognitive style – Embedded Figures Test
8. Syllogistic reasoning
9. Creativity
10. Cryptarithmic
11. Decision making
12. Wisconsin Card Sorting Test

PROJECT WORK

1. Hemispherical correlates of cognitive abilities
2. Biological processes
3. Perception
4. Arousal
5. Motivation
6. Decision making
7. Working memory
8. Judgment of Facial expressions
9. Problem solving
10. Language processing
11. Reasoning

3rd semester

3.3 ORGANIZATIONAL STRUCTURE AND ORGANIZATIONAL DEVELOPMENT -1

Objectives: The course is designed to provide information regarding the structure of organizations and the nature of organizational behavior to the student. The course equips the student to deal with the problems related to human relations and human activities in organizations.

Unit 1: Foundations of Organizational Behavior: Introduction to Organizational Behaviour – Historical Background, The Hawthorne Studies – Defining Organizational Behaviour, theoretical framework, Organizational behavior model. Today's organizations [Information technology, Total Quality Management, Learning organization. Contemporary challenges- diversity and ethics]

Unit 2: Macro dynamics of OB- Groups Dynamics: The nature of groups, the dynamics of formal and informal work groups, Teams, Teams in modern workplace.

Unit 3: Conflict: Interactive conflict and negotiation Skill, Intra individual conflict interpersonal conflict- Inter group behavior and Conflict- organizational conflict, negotiation skills

Unit 4: Stress: Causes, effect and coping strategies. The meaning of stress- The causes of stress. The effects of Stress- Coping strategies for stress

Unit 5: Leadership and Power: Background and process: Meaning of leadership, historical background, Traditional and modern theories. Leadership styles, activities and skills. The role and activities of leadership- leader skills, Power and politics, Meaning of power and political implication of power

3.2 3.2 LIFE SPAN DEVELOPMENT

Unit-1

Defining life span development, science of life span development. Methods and developmental research. Theories of human development- brief description of Freudian, cognitive (Piaget), Contextual (Vygotsky, Bronfenbrenner) theories, Genetics, environment and development. Pre-natal and perinatal environment, hazards, risks. Infancy-principles of growth, physical and development.

Unit-2

Physical development across the life span and the psychological implications: Growth during childhood, spurt during puberty, physical growth and sexual maturity, appearance and structure during adulthood, menopause and male climacteric, slowing down disease, disability and death.

Unit-3

Cognition: Development during adolescence, growth beyond formal operational stage, aging and cognitive skills, intelligence, creativity, learning and memory across life span. Language and moral development, Stages in language development, language development across the life span, theories of moral development, Changes in moral reasoning.

Unit-4

Social and emotional development. Attachment, love and marriage, intimacy, sexuality, parenthood, parent-child conflicts, parenting styles, family life cycle, family relationships in later years, grandparenting, self identity, gender identity and personality across the life span.

Unit-5

Education, school and scholastic achievement, adult learning, life long education. Work, preparation for work, theories of career development, balancing work and marriage, work in middle age-generativity, retirement in old age, healthy adjustment.

Paper 3.3C INDUSTRIAL PSYCHOLOGY 1

Objectives: The syllabus is designed to equip students with traditional role of a psychologist in organization with emphasis on the various personnel functions, as well as recent trends.

Unit 1: (a) Scope, historical development and current status, Industrial psychology in India.

(b) Personnel selection – Selection Models – Techniques of Selection – testing, interview, reference letters, and other selection devices, strategies for retention.

Unit 2: Psychological processes at work: Importance of Perception, perceptual organization Social perception. Impression Management

Personality and Attitudes: Antecedents, implications of personality and attitude on work performance. Individual difference, Self efficiency, Emotional Intelligence, Optimism

Unit 3: Motivation: Concept of work motivation, content and process theories of work motivation, contemporary theories of work motivation, motivating performance through Job design, goal setting, socio- technical system, quality of work life.

Unit4: Learning – Principles of learning in the context of organization, reinforcement, reward,

Punishment, behavior management and OB modifications.

Unit 5: Communication Skills: Types of communication – Verbal, non verbal, interpersonal, formal and informal communications, personal barriers in interactive communication, communication media and technology, communication across culture

3.4 ORGANIZATIONAL STRUCTURE AND ORGANIZATIONAL DEVELOPMENT -1

Objectives: The course is designed to provide information regarding the structure of organizations and the nature of organizational behavior to the student. The course equips the student to deal with the problems related to human relations and human activities in organizations.

Unit 1: Foundations of Organizational Behavior: Introduction to Organizational Behaviour – Historical Background, The Hawthorne Studies – Defining Organizational Behaviour, theoretical framework, Organizational behavior model. Today's organizations [Information technology, Total Quality Management, Learning organization. Contemporary challenges- diversity and ethics]

Unit 2: Macro dynamics of OB- Groups Dynamics: The nature of groups, the dynamics of formal and informal work groups, Teams, Teams in modern workplace.

Unit 3: Conflict: Interactive conflict and negotiation Skill, Intra individual conflict interpersonal conflict- Inter group behavior and Conflict- organizational conflict, negotiation skills

Unit 4: Stress: Causes, effect and coping strategies. The meaning of stress- The causes of stress. The effects of Stress- Coping strategies for stress

Unit 5: Leadership and Power: Background and process: Meaning of leadership, historical background, Traditional and modern theories. Leadership styles, activities and skills. The role and activities of leadership- leader skills, Power and politics, Meaning of power and political implication of power

3.1 THEORIES OF LEARNING

Unit 1: Nature of learning theories, need for a theory, variables, laws of learning, problems and issues, determinants of learning, applications of learning research.

Unit 2: S-R theories: Pavlov, Guthrie, Thorndike, Harlow, Skinner, current status of research and applications

Unit 3: Drive reduction theories: Hull, Mowrer, Spence, Miller, current status of research and applications

Unit 4: Cognitive theories: Tolman, Gestalt theories-Kohler, Koffka, current status of research and applications

Unit 5: Mathematical models: simulated learning models-human learning models-current status of research and applications

4th semester

4.1 FOURTH SEMESTER

4.1 INDIAN AND TRANSPERSONAL PSYCHOLOGY

Unit 1: Definitions, nature, differentiation of concepts; indigenous, Indian, transpersonal psychology, relationship between culture and psychology, emergence of indigenous and non western perspectives to psychology.

Unit2: Major schools of Indian psychology, world views and methods of knowing in Upanishads, sankhya, dvaitha, and advaita schools, basic methods of study, current research in Indian psychology.

Unit3: Self and consciousness, viewpoints of Upanishads, baghvatgeetha, Buddhism and Jainism, and other Indian schools of thought.

Unit4: Health -well being- human development: Indian approaches to health and well being, yoga, ayurveda, goals of life- concept of purusharthas, personality development- concept of ashramas.

Unit5: Transpersonal approaches- transpersonal phenomenon and consciousness- contribution of William James, Jung, Christian mystical tradition, Hinduism, Buddhism, Jainism in understanding transpersonal phenomenon.

4.2 4.2 COMMUNITY PSYCHOLOGY

Unit 1

Introduction: definition of community psychology, factors underlying emergence of community psychology, principles of community psychology. Concept of prevention. Theory and research in community psychology-ecology, epidemiology, general systems theory, evaluation research.

Unit-2

Concept of community mental health, medical model vs CMH model, comprehensive community mental health centers, development and functions. Major techniques of CMH- crisis intervention, consultation, mental health education and uses of Non professionals. Community mental health movement in India- Development and current status

Unit-3

Aggression in the community- Definition, Nature, theories of aggressive behavior. Control and prevention of aggression

Violence definition, different types of violence- domestic and group violence, effect. Control and Prevention. Role of community psychologists in control of such behavior.

Unit-4a: Crime and delinquency, definition, types, causes- prevention of crime, rehabilitation of criminals, role of psychologists

4b: problem of alcoholism, definition, types, theories of alcoholism, effects, methods of treatment, prevention and rehabilitation

Unit 5a: problem of unemployment: defining unemployment, causes and types, effects of unemployment, role of psychologists in solving the problem.

5b: poverty and deprivation: definition, types, causes. Psychological studies of effects of poverty and deprivation, poverty alleviation programmes.

4.3 ORGANIZATIONAL STRUCTURE AND ORGANIZATIONAL DEVELOPMENT-2

Objectives: The course equips the student to deal with the problems related to human relations and human activities in organizations.

Unit 1: Macro perspective of organizational behavior- Background of the role of communication, Communication technology: Nonverbal communication – Downward communication –, upward communication.

Unit 2: Decision making – Nature of decision making, Behavioral decision making, participate decision making techniques, creativity and group decision making

Unit 3: Organization Theory and Design, classical organization theory, modifications of bureaucratic structuring, modern organization theory, modern organizational designs

Unit 4: Organizational Culture: nature of Organizational Culture – Creating and maintaining culture, the impact of culture on international organizational behavior, global communication, motivation across cultures, managerial leadership across cultures.

Unit 5: Organizational change and development, The changes facing organizations – Managing Change and Organizational Development – The future of Organizational Behaviour.

4.4 INDUSTRIAL PSYCHOLOGY -2

Objectives: The syllabus is designed to equip students with contemporary role of a psychologist in organization with emphasis on the various personnel functions, as well as recent trends.

Unit 1: Training – Systems approach to training, Different methods of training- human relations training, sensitivity training, stimulated training, vestibule training, sensitivity training, assessment centers, organizational training laboratory, determinants of training, effectiveness, measurement and evaluation of effectiveness.

Unit 2: Performance Appraisal- Need, objectives, techniques and methods of evaluation. ISO, Six Sigma, quality circles

Unit 3: Work environment: Physical and psychological environments, Man Machine Integration, Impact of environment on job performance and on the individual,

- Effect of environmental factors on performance, Person, fatigue, Person – environment fit theory, determinants of ideal work environment, job satisfaction
- Unit 4: Application of psychological principles to marketing, consumer behavior and advertisement
- Unit 5: Behavioral issues- Absenteeism, alcoholism, attrition., gender differences, accidents, intervention techniques for handling behavioral issues, compensation management.

4.5 Screening and Assessment

Part a – administration

1. Assessment of job stress
2. Assessment of burn out
3. Assessment of job satisfaction
4. Performance evaluation/ how to supervise
5. Selection interviews
6. Performance appraisal
7. Assessing work motivation
8. Assessing values using Rokeach's scale
9. Type a behavior
10. Assessment of quality work life

Part b-

1. Job analysis-semi skilled job
2. Job analysis-skilled job
3. Job analysis-professional job
4. Case studies- communication
5. Case studies- motivation
6. Case studies- inter personal relations
7. Case studies- leadership style

MASTER OF BUSINESS ADMINISTRATION REGULAR (DAY) COURSE
Revised syllabus (with effect from 2007-2008)

CREDITS

The university uses the concept of credits and one credit is equivalent to 10 class room contact hours.

COURSE MATRIX

FIRST SEMESTER – BASIC SUBJECTS

PAPER	SUBJECT	CREDIT	I.A	U. E	TOTAL MARKS
1.1	Managerial Communication	6.0	25	75	100
1.2	Accounting for Managers	6.0	25	75	100
1.3	Organisation Behaviour	6.0	25	75	100
1.4	Managerial Economics	6.0	25	75	100
1.5	Bumastics	6.0	25	75	100
1.6	Information Technology for Business	6.0	25	75	100
1.7	Business Perspectives	6.0	25	75	100
TOTAL		42.0	175	525	700

SECOND SEMESTER – CORE SUBJECTS

PAPER	SUBJECT	CREDIT	I.A	U. E	TOTAL MARKS
2.1	Research Methodology & Technical Writing	6.0	25	75	100
2.2	Financial Management	6.0	25	75	100
2.3	Production and Operations Management	6.0	25	75	100
2.4	Human Resource Management	6.0	25	75	100
2.5	Marketing Management	6.0	25	75	100
2.6	Quantitative Methods & Operations Research	6.0	25	75	100
2.7	Legal Aspects of Business	6.0	25	75	100
TOTAL		42.0	175	525	700

THIRD SEMESTER – CORE SUBJECTS & SPECIALISATIONS

PAPER	SUBJECT	CREDIT	I.A	U. E	TOTAL MARKS
3.1	Entrepreneurship Development	6.0	25	75	100
3.2	Business Ethics & Corporate Governance	6.0	25	75	100
3.3	Electives 1 from specialisation	6.0	25	75	100
3.4	Electives 2 from specialisation	6.0	25	75	100

3.5	Electives 3 from specialisation	6.0	25	75	100
3.6	Electives 4 from specialisation	6.0	25	75	100
3.7	Electives 5 from specialisation	6.0	25	75	100
	Internship Report and Viva-Voce	3.0	-	-	50
TOTAL		42.0	175	525	750

FOURTH SEMESTER – CORE SUBJECTS & SPECIALISATIONS

PAPER	SUBJECT	CREDIT	I.A	U. E	TOTAL MARKS
4.1	Strategic Management	6.0	25	75	100
4.2	International Business	6.0	25	75	100
4.3	Electives 1 from specialisation	6.0	25	75	100
4.4	Electives 2 from specialisation	6.0	25	75	100
4.5	Electives 3 from specialisation	6.0	25	75	100
4.6	Electives 4 from specialisation	6.0	25	75	100
4.7	Electives 5 from specialisation	6.0	25	75	100
	Dissertation	12.0	-	-	200
	Dissertation Viva-Voce	0.0	-	-	50
TOTAL		42.0	225	525	950

ELECTIVES TO BE OFFERED IN III & IV SEMESTERS

1. Agri-Business management
2. Bank Management
3. Entrepreneurship
4. Finance
5. Human Resource Management
6. Information Technology
7. Insurance & Risk Management
8. International business
9. Management of NGO's & NPO's
10. Manufacturing management
11. Marketing

12. Services Management
13. Event & Media Management
14. Rural Management

**THE UNIVERSITY RESERVES THE RIGHT TO OFFER OR NOT TO OFFER ANY OF
THE ELECTIVES LISTED ABOVE**

SPECIALISATION

A stream of electives will be offered. These will be developed and updated from time to time. To qualify for a specialization in a stream, a student will have to take a minimum of 5 elective courses in a stream to qualify for a specialization area. This will facilitate students to specialize in more than one stream of specialization. A student, however, can choose such combinations which will help him / her to have dual specialization depending on the courses offered in the specialization scheme. A student who fails to choose at least five papers in one of the electives shall not be eligible for any specialization.

LESSON PLAN AND COURSE OUTLINE

The faculty members concerned will be required to make a course outline available to the students. This should cover objectives of course, methodology to be adopted, session wise details of topics, required readings, additional readings, case studies and assignments of course.

**SELF DEVELOPMENT AND ENRICHMENT (NON CREDIT) COURSES TO DEVELOP
SOFT SKILLS**

The Institutions are required to offer the following non credit courses in order to enhance soft skills among the students. Although there is no examination for these courses it is very essential to keep a record of the performance of the student in the such courses offered and colleges shall send a report and teaching plan to the Director, CBSMS Bangalore University, Bangalore for information.

- Introduction to communications, Inter personal skills
- Listening skills
- Group communications, team work, Interviews
- Writing skills – letters, memos, reports

- Writing skills – persuasion, marketing, CVs
- Stress management
- Public speaking skills – Stage fear, eye contact and preparation
- Public speaking skills – Voice, modulation, gestures and postures
- Power point and presentation skills
- Use of Graphics, slides, video and audio
- Negotiations and Conflict management
- Rapid reading skills
- Meetings, agenda, minutes and conducting meetings
- English language and relevance to business communications
- Corporate and cyber communications

MANAGERIAL COMMUNICATION

OBJECTIVES:

The course is aimed at equipping the students with the necessary techniques and skills of communication to inform others inspire them and enlist their activity and willing cooperation in the performance of their jobs.

MODULE - 1

COMMUNICATION IN BUSINESS: Importance of Communication Forms of Communication, Communication Network of the Organization; Process of Communication: Different Stages, Difference Between Oral and Written Communication

MODULE - 2

ORAL COMMUNICATION: Fundamentals of Oral Communication: Introduction, Barriers and Gateways in Communication, Listening, Feedback, Telephonic Messages, Public Speaking, and Presentation of Reports, Power point presentation, body language, non-verbal, facial expressions, communication and emotional intelligence, creativity in oral communication,

persuasive communication, communication through organizing various events like conferences, committee meeting, press meets, seminars, fests and the like.

MODULE - 3

REPORT WRITING: Writing an Effective Report: Stages of Writing, Composing Business Messages, Style and Tone; Five Ws and one H of Report Writing, Planning and Types of Reports, Divisions, Numbering and use of Visual Aids, creativity in written communication, use of picture, diagram in written communication.

MODULE - 4

BUSINESS COMMUNICATION: Writing Commercial Letters: Business Letter Format, Types of Letter – Routine Business Letters, Sales Letters, Resume and Job Applications, Business Memos, E- Mail Messages, Proposals, Technical Articles, Telegrams, Telex Message, Facsimiles, Electronic Mail, Handling a Mail, Maintaining a Diary, Legal Aspects of Business Communication, Negotiation Skills.

MODULE-5

ROUTINE CORRESPONDENCE: circulars, drafting notices, handling complaints, evaluating interview performance, articles, formal invitations, proforma for performance appraisal, letters of appointment, captions for advertising, company notice related shares, dividends, MoA, AoA, Annual Reports, Minutes of Meeting, action taken report on previous resolution.

BOOKS RECOMMENDED

1. Scot Ober, Contemporary Business Communication, Biztantra
2. Bovee, Thill and Schatzman, Business Communication today, Pearson
3. Nageshwar Rao and Rajendra Das, Business Skills, HPH
4. Mary ellen Guffy, Business Communication, Thomson
5. M Ashraf Rizvi, Effective Technical Communication, TMH
6. Meenakshi Raman and Sangeeta Sharma, Technical Communication, Oxford
7. Micheal Osborn and Suzanne Osborn, Public Speaking, Biztantra
8. John Seely, Oxford Writing and Speaking, Oxford
9. Parag Diwan, Business Communication, EB

ACCOUNTING FOR MANAGERS

OBJECTIVES

To enable the students gain knowledge about concepts, principles and techniques of accounting and to enable the students use financial and cost data in planning, decision making and control.

MODULE: 1

Introduction to financial accounting, uses and users of accounting information, generally accepted accounting principles and the accounting environment, the role of accounting in capital market and corporate governance. Recording of business transaction, classification of commonly used accounts, the double entry system, journal, Ledger and trail balance.

MODULE: 2

Measurement of Business Income and Financial position, preparation of Profit and loss account, balance sheet, understanding of corporate Financial Statements in annual reports.

MODULE: 3

Valuation of Fixed assets, depreciation accounting, valuation of inventories (as per respective accounting standards issued by Accounting Standard Board of Institute of Chartered Accountants of India)

MODULE: 4

Financial statement analysis, objectives, standards of comparisons, sources of information, Techniques of financial statements analysis: Ratio analysis, du-pont analysis, Trend analysis, common sized analysis, fund flow statements, cash flow statements. (As per AS-3)

MODULE: 5

Introduction to cost accounting, concepts and classification, standard costing and variance analysis, budgetary control, absorption costing and marginal costing, applications of Marginal Costing, Cost-volume – profit analysis, Concepts of Target costing, activity based costing and life cycle costing.

BOOKS RECOMMENDED

1. R. Narayanaswamy, Financial Accounting, PHI
2. Nitin Balwani, Accounting and Finance, EB
3. Dr. Jawaharlal, Accounting for Management, HPH
4. Khan and Jain, Management Accounting, TMH
5. Louderback and Holmen, Managerial Accounting, Thomson
6. Ambrish Gupta, Financial Accounting for Management, Pearson
7. Robert Anthony, David Hawkins and Kenneth Merchant, Accounting, TMH
8. James Stice and Michael Diamond, Financial Accounting, Thomson
9. Tulsian, Financial Accounting, Pearson
10. Warren Reeve Fess, Financial Accounting, Thomson
11. Bannerjee, Financial Accounting, EB

ORGANISATIONAL BEHAVIOUR

OBJECTIVES

To enhance understanding of the dynamics of interaction between individual and the organisation facilitate a clear perspective to diagnose and effectively handle human behavior issues in organizations and Develop greater insight into their own behavior in interpersonal and group team situations. And Acquire skills in influencing people in organizations, to provide to the students a Foundation of knowledge in organizations and help them to become aware of the influence of organisation, structure on the attitudes behavior performance of people working in organizations.

MODULE-1

Organizational Behavior and Management functions of management. What Manager do elements of an organisation, role of a manager in an organisation, why study organizational behavior, an organizational behavior model, learning organizations.

MODULE 2

Foundations of individual behavior; Personality, shaping of personally, determinants of personality. The self concept, self esteem and self efficiency, perception, perceptual process, managing the perceptual process, Learning Process, Reward System and Behavioral management, The Theoretical process of learning, Principles of Learning, Reward and Punishment, Organizational Reward Systems

MODULE 4

Attitude formation, functions, change of attitudes, values, types of attitudes

MODULE 5

Management of Motivation: Motivation in work settings managerial issues and challenges. Theories, Maslows Need theory, K McGregor theory X&Y, Hertzberg's Motivation hygiene theory, Vroom's Valance and instrumentality.

MOLDULE 6

Team Building and group dynamic, working teams and team effectiveness. Intra team dynamics, influence of the group on individual group decision making, inter group relations collaboration, conflict management and Change Management.

MODULE 7

Dynamics of managerial leadership, what is leadership, transition of leader ship theories, leadership, theories, power and politics leadership and management change

MODULE 8

Behavior structure, process & Design: the course mainly connected with nature of management – Introduction to organizations the structural Perspectives, dimensions of structure.

BOOKS RECOMMENDED

1. Uday Pareekh, Organizational Behaviour, Oxford
2. Stephen Robbins and Timothy Judge, Organizational Behaviour, PHI
3. Fred Luthans, Organizational Behaviour, TMH
4. Steven Robbins and Seema Sanghi, Organisational Behaviour, Pearson
5. P Subba Rao, Management of Organizational Behaviour, HPH
6. Gregory Moorhead and Ricky Griffin, Organizational Behaviour, Biztantra
7. Debra Nelson and James Quick, Organisational Behaviour, Thomson
8. PG Aquinas, Organization Behaviour, EB

MANAGERIAL ECONOMICS

COURSE OBJECTIVE

The course will sharpen their analytical skills through integrating their knowledge of the economic theory with decision making techniques. The course covers the standard topics of managerial economics that are crucial to understanding the behavior of business firms in a global setting.

MODULE 1: NATURE, SCOPE AND METHODS OF MANAGERIAL ECONOMICS

Scarcity, choice and allocation problems in business. Basic factors in business decision making: Marginalism, Equi-marginalism, and Opportunity cost principle, Risks and uncertainties, Time value of money. Use of quantitative techniques in managerial economics: Mathematical functions, derivatives, optimization principles and statistical techniques.

MODULE 2: DEMAND ANALYSIS, ESTIMATION AND FORECASTING

Demand theory. Types of demand. Demand elasticity: Types, measurement and factors. Elasticity of demand and marginal revenue. Uses of elasticity concept in business decision making. Estimation of Demand function. Demand forecasting: Importance and methods. Qualitative and quantitative techniques.

MODULE 3: PRODUCTION ANALYSIS

Production functions with one-variable and two-variable inputs. Returns to a factor and returns to scale. Isoquants, isocost curves and ridgelines. Optimum factor combination. Elasticity of output and Elasticity of substitution. Empirical production functions. Forms of Production function. Cobb-Douglas and CES production functions. Production possibility analysis. Optimum product mix of a multi-product firm.

MODULE 4: COST AND REVENUE ANALYSIS

Cost theory and its applications: Types of costs. Theoretical and Empirical cost curves. Short-run and long-run cost curves. Derivation of cost functions from production functions. Empirical estimation of cost functions. Economies of scale versus economies of scope. Optimum firm. Learning curve. Cost control and cost reduction. Revenue concepts and functions. Break-even analysis.

MODULE 5: MARKET STRUCTURE AND PRODUCT PRICING

Features of and pricing-output decisions in perfect competition, monopoly, oligopoly and monopolistic competition. Equilibrium of the firm and of industry under different market conditions. Degree of monopoly power. Discriminating monopoly. Welfare triangle. Pricing methods and practices of modern business firms: Cost-based and demand-based pricing strategies.

MODULE 6: THEORIES OF THE FIRM AND PROFIT

Alternative objectives of the firm. Profit maximization versus sales maximization objectives. Traditional, behavioral and managerial theories of the firm. Accounting profit versus Economic Profit. Theories of Profits.

BOOKS RECOMMENDED

1. Atmanand, Managerial Economics, EB
2. Sk Misra and VK Puri, Indian Economy, HPH
3. Dominick Salvatore, Managerial Economics, Thomson
4. Damodaran, Managerial economics, Oxford
5. Keating and Wilson, Managerial Economics, Biztantra
6. Craig Peterson, Chris Lewis and Sudhir Jain, Managerial Economics, Person
7. Chirstopher Thomas and Charles Maurice, Managerial Economics, TMH
8. Mankar, Business Economics, McMillan
9. Paul Keat and Philip Young, Managerial Economics, Pearson

BUSINESS MATHEMATICS AND ANALYTICS

OBJECTIVE

The course facilities the students to develop and hone statistical skills for managerial decision making

MODULE 1

Mathematical basis for managerial decision making, Matrices, Functions linear, quadratic exponential applications, Differentiation, Maxima & Minima Emphasis on cost and revenue functions, Fundamentals of integration, Ratio and Proportion.

MODULE 2

Business Statistics and scope, Application of Statistics in Managerial Decisions making, Definition of Statistics, Measures of Central tendency, dispersion, Skew ness & Kurtosis -interpretation and business applications.

MODULE 3

Probability Theory-meaning and importance, Theorems of probability, conditional probability, joint probability, Baye's Theorem, Random variable, expectation and variance of random variable, Probability distributions-binomial, Poisson, normal and exponential with business application

MODULE 4

Decision Theory, Decision Tree, Decision making under certainty, uncertainty and risk, Bayesian approach

MODULE 5

Sampling, sampling distributions, Introduction to central limit theorem Estimation, confidence interval, Hypothesis testing -basic concept, Hypotheses testing for mean and proportions for small and large samples, ANOVA ONE WAY AND TWO WAY, NON parametric tests, Chi square, sign test, run test, median test rank sum test, Kruskal Walkusm K.S test, Mann Whitney test.

MODULE 6

Index Numbers construction and application, Tests of consistency, Correlation analysis, Methods of correlation analysis, Lag and lead in correlation, Multiple Correlation, Regression analysis Linear and multiple regression, Introduction to regression model building via SPSS, Introduction to time series- secular trend and applications

BOOKS RECOMMENDED

1. Mittal, Sathyaprasad and Pradeep Rao, Mathematics and Statistics for Management, HPH
2. Azel and Sounderpandian, Complete Business Statistics, TMH
3. JK Sharma, Business Statistics, Pearson
4. RS Bhardwaj, Mathematics for Economics and Business, EB
5. RP Hooda, Statistics for Business and Economics, McMillan
6. GC Beri, Business Statistics, TMH
7. BR Dey, Managerial Statistics, McMillan

INFORMATION TECHNOLOGY FOR BUSINESS

OBJECTIVES: The primary objective of this course is to familiarize the student with basic concepts of information technology and their applications to business processes and decision making.

COMPUTER HARDWARE AND SOFTWARE: Application and Systems Software, introduction to Programming and their Classification.

INFORMATION SYSTEMS AND STRATEGIC IMPLICATIONS

Data information systems, difference between data and information, information system activities and resources, system approaches, organizational sub-systems, support system, systems applications in strategy building.

FUNCTIONAL AND ENTERPRISE SYSTEMS: Management Information Systems, Types of Operating Systems – functional and cross functional system, organizational sub systems - Transaction Processing Information Systems, Accounting and Finance Systems, Marketing and Sales Systems, Production and Operation Management Systems, Human Resources Management Systems, e-CRM, SCM, KMS, ERP and BPR.

INTRODUCTION TO E-BUSINESS: Electronic Business, Electronic Commerce, Electronic Commerce Models, Types of Electronic Commerce, Value Chains in Electronic Commerce, E-Commerce in India. Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce, Intranet, Composition of Intranet, Business

Applications on Intranet, Extranets. Electronic Data Interchange - Components of Electronic Data Interchange and Electronic Data Interchange Communication Process.

DATA AND SYSTEMS INTERFACE

Database Management Systems, Systems Analysis and Design

DECISION SUPPORT SYSTEM

DSS and ES, Software for Decision Support, Group Decisions making, Enterprise wide computing, object oriented analysis and design

ETHICAL AND SECURITY ISSUES IN INFORMATION TECHNOLOGY

Need for security, security techniques – firewalls, encrypting, cyber terrorism and other measures preventing misuse of IT.

PRACTICAL: MS Office, Excel, PowerPoint, SPSS.

BOOKS RECOMMENDED

1. Ralph Stiar and George Reynolds, Fundamentals of Information technology, Thomson
2. Introduction to Information Technology, Pearson
3. Williams and Sawyer, Information Technology, TMH
4. Carroll Frenzel and John Frenzel, Management Information Technology, Thomson
5. Wanan Jawadekar, Management Information Systems, TMH
6. Ashok Arora and Akshya Bhatia, Management Information systems, EB
7. Mahadeo Jaiswal and Monika Mital, Management Information System, Oxford

BUSINESS PERSPECTIVES

OBJECTIVES:

The course aims to provide basic concepts and knowledge with regard to a business enterprise and its various functional areas.

MODULE - I

Introduction: Concept, Nature and Scope of Business; forms of business enterprise
Concept of business as a system; Business and Environment Interface; Business objectives; Business Ethics and Values; Code of Conduct and Corporate Governance.

MODULE -2

Key indicators of economic perspectives; Gross Domestic product, sectoral shares, agricultural output, electricity generation, rate of inflation, money supply, foreign trade, forex reserves, exchange rates, economic infrastructure, social indicators.

MODULE 3

Industrial and regulatory perspective of business: Regulatory role of government impact of political environment on business–industrial policy and performance –public sector – privatization –government and business interface –trends industrial production , industrial diversification – SMEs policy and development – incentives for SSIs, Industrial Sickness, Role of BIFR and status of entrepreneurship India

MODULE 4

Social and technological perspectives: Social responsibilities of business, environmental cost audit –Technology policy technology transfer, energy recourse management, R&D environment, incentives for technological research, information system for technology development.

MODULE 5

Monetary and fiscal perceptives: Monetary policy, impact on business, Instruments of monetary policy, fiscal policy, union budget, state budget, finances of union and state and finance commissions.

MODULE 6

Global environment: Meaning and levels of globalization, factors influencing globalization, effected of globalization, concept of MNCs and TNCs- International business salient features of exim policy, international business risk, recent growth trends in major industrial segments.

BOOKS RECOMMENDED

1. Suresh Bedi, Business Environment, EB
2. Francis Cherunilam, Business environment, HPH
3. Saleem, Business Environment, Pearson
4. Justin Paul, Business Environment, TMH
5. Raj Agarwal, Business Environment, EB
6. Adhikary, Global Buisness Management, McMillan
7. Palle Krishna Rao, WTO, EB

RESEARCH METHODOLOGY & TECHNICAL WRITING

OBJECTIVES:

The objective of this course is to develop the research skills of students in investigating the research problems with a view to arrive at objective findings, interpretation of data and conclusions of their investigation in the form of systematic reports. They are also expected to learn basic statistical tools of analysis to sharper their research studies.

MODULE 1

Meaning and significance of Research in Management, Different Approaches to research – Scientific method and non scientific Methods, Types of research – Historical studies, case studies, survey and experimental studies, criteria for good research, the manager and researcher relationship.

MODULE 2

Formulation of research problem, Defining research problem, Generating research hypothesis, Research process, Research Design, Classification of research designs, Need for Research design, Features of good research design, Research proposal

MODULE 3

Sampling Techniques, Steps in sampling, Types of sample Design – probability and Non Probability sampling designs, size of sample, sampling errors, concept of Measurement and scaling, Scaling techniques, characteristics of sound measurement.

MODULE 4

Sources of data – primary vs. secondary data, sources of primary data – observation, Interview methods, survey method, questionnaire construction and design.

MODULE 5

Processing of Research data – Editing, coding, classification and Tabulation.

MODULE 6

Hypothesis testing – Null and alternate hypothesis, level of significance, one and two sample tests, Measures of central tendency, Measures of variation, Measures of Dispersion and skewness, Test of randomness, correlation and Regression analysis, ANOVA, Discriminate Analysis, cluster Analysis, Data Analysis by software packages.

MODULE 7 Technical Report writing, Types of reports objectives and function of report formal and informal, report writing process, target audience, pre-research proposals, progress reports, final reports, guidelines for effective writing, Research report format, Presentation of a report, Persuasive nature of reports, Reports for Decision Making, technical proposal, instructions manuals, precis writing and reporting committee findings.

BOOKS RECOMMENDED

1. OR Krishnaswami & Rangantham, Methodology of Research, HPH
2. Donald Cooper and Pamela Schindler, Business Research Methods, TMH
3. Dipak Kumar Bhattacharyya, Research Methodology, EB
4. KN Krishnaswamy, Sivakumar and Mathirajan, Management Research Methodology, Pearson
5. Wiilam Zikmund, Business research Methods, Thomson
6. Panneerselvam, Research Methodology, PHI
7. Daniel Riordan and Steven Pauley, Technical Report Writing Today, Biztantra
8. Alan Bryman and Emma Bell, Business Research Methods, Oxford
9. William Trochim, Research Methods, Biztantra

FINANCIAL MANAGEMENT

OBJECTIVE: To provide a strong conceptual foundation for corporate finance and an overview of the global and Indian context.

MODULE – 1:

INTRODUCTION TO FINANCIAL MANAGEMENT: Scope, Objectives, Functions, Role of Financial Manager, Interface of Financial Management with other functional areas, the financial environment: Markets and Institutions.

MODULE – 2:

FUNDAMENTAL CONCEPTS IN FINANCIAL MANAGEMENT: Risk and Return trade off, Risk in a portfolio context, Measuring portfolio Risk, Capital Asset pricing model, Time value of money, Valuations of bonds and stocks.

MODULE – 3:

INVESTMENT DECISIONS: Nature and importance of capital budgetary process, Basic principles in estimating costs and benefits of investments, Appraisal criteria – pay back period, Average rate of return, Net present value, Benefit cost ratio, Internal rate of return, Risk analysis in capital budgeting.

MODULE – 4:

COST OF CAPITAL AND SOURCES OF FINANCE: Cost of debt, Cost of Equity and reserves, Cost of preferred stock, weighted average cost of capital, Factors affecting cost of capital. Long term financing: shares, Debentures, Warrants, Term loans, Lease financing, Hybrid financing, Venture capital financing.

MODULE – 5:

CAPITAL STRUCTURE: Introduction, Factors affecting capital structure, Features of an optimal capital structure, Capital structure theories: Net income approach, Net operating income approach, Miller Modigliani propositions I and II, Leverages: Operating, Financial and Combined, Leverage and firm value.

MODULE – 6:

DIVIDEND POLICY: Introduction, Dividend decisions and valuation of firms, Determinants of dividend policy, Dividend theories – relevance and irrelevance: Walter, Garden and M M Hypothesis, Bonus issues, stock split, Buy back of shares, Tax issues.

MODULE – 7:

WORKING CAPITAL MANAGEMENT AND FINANCING: Meaning, Importance, Concepts at working capital, Determinants, Managing various components of working capital, Tools for analysis and managing working capital, Credit management.

BOOKS RECOMMENDED

1. Prasanna Chandra, Financial Management, TMH
2. Khan and Jain, Basic Financial Management, TMH
3. James Van Horne and John Wachowicz, Financial Management, Pearson
4. Brigham & Houston, Fundamentals of Financial Management, Thomson
5. Paresh P Shah, Financial Management, Biztantra
6. Ashok Banerjee, Financial Management, EB
7. Prasanna Chandra, Fundamentals Financial Management, TMH
8. John Wild, Subramanyam & Robert Halsey, Financial Statement Analysis, TMH

PRODUCTION AND OPERATIONS MANAGEMENT

OBJECTIVES

To familiarize the concepts of production and operations management systems and to appraise customer expectations of quality and relationships and to update and Technologies to meet global competition and to understand functions of interrelation departments and decisions involved therein for effective operations management.

OPERATIONS MANAGEMENT

Plant Location Criteria, Plant Layout Types: Product, Process, Cell Layout, Fixed Station, Merits & Demerits: Volume – Variety relationship, Modern Practices of Production Management, Line Balancing, Desired Output, Limited Resources, Product Design Criteria, Work Study, Method Study, Work Measurement, Various Techniques of Method Study and Work Measurement + Problems.

QUALITY MANAGEMENT

Inspection V/S Quality: Seven Stages of Quality, ISO 9000 & ISO 14000, Seven Tools of Quality Circles, Pareto Chart, Cause and Effect Diagram, Histogram, Stratification, Scatter Diagram, Control Charts, Check Sheets, Concept of Total Quality Management + Problems, Excellence in all Subsystem Leading to Organisational Excellence, Introduction to SIX SIGMA, QFD and FMEA & POKAYOKE, Vender Development and Vender Quality Rating, Cases – How to improve quality.

MAINTENANCE MANAGEMENT

Different Types of Maintenance: Breakdown, Preventive, Predictive, condition Maintaining, Total Productive Maintenance (TPM), Concept of OEE (Overall Equipment Effectiveness) + Problem, Concept of “5S” House Keeping.

PLANNING

Material Requirement Planning (MRP), Enterprise Resource Planning (ERP), Production Planning and Control, Master Production Scheduling, Yearly Planning – to Quarterly- to Monthly – to Weekly – to Daily, Capacity Planning and Assessment, Line of Balance, Cost Control V/S Cost Reduction, Concept of Value Engineering.

MATERIAL MANAGEMENT

Inventory Management: RMC Inventory, ABC Analysis, JIT, Lead-time Management, Pareto Principles. WIP: Lean Manufacturing, Line Balancing, SPC. FGS: Push V/S Pull System, Advantages of Pull System. Spares: EOQ & Breakeven Analysis to Reduce Total Inventory Cost, Supply Chain Management & Logistics Management – Introduction.

MANUFACTURING TECHNOLOGY

CIM / CAD Introduction, Automation, Concept of Special Purpose M/C (SPM's), Designing Production Systems at Shop Floor, Work Instructions, Standard Operating Procedure, Monitoring Productivity Measurements, Productivity, Quality, Breakdowns & etc.,

BOOKS RECOMMENDED

1. SN Chary, Production and Operations Management, TMH
2. Upendra Kachru, Productions and Operations Management, EB
3. Chunawalla and Patel, Productions and Operations Management, HPH
4. Martin K Starr, Production and Operations Management, Biztantra
5. Mahadevan, Production and Operations Management, Pearson
6. Kansihka Bedi, Productions and Operations Management, Oxford
7. William Stevenson, Operations Management, TMH
8. Norman Gaither and Greg Frazier, Operations Management, Thomson

HUMAN RESOURCES MANAGEMENT

OBJECTIVES

- To prepare the students to understand the changing environment and its implication for managing the Human Resources to achieve the competitive advantage and corporate excellence.
 - To make the students to understand the linkages between corporate vision mission strategies policies and human resources management.
 - To help the students to understand the intricacies o Human Resources management and acquire skills in effectively managing human resources in whatever functional areas of management they would be engaged
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MODULE 1

Environmental context: New economic policy and changing business, technological, socio-economic and political, legal environment structural reforms their implication for HRM in India; response of the management, workers and unions to structural adjustment.

MODULE 2

The Paradigm shifts in people Management, Emergence of Human Resource Management as a distinct model of people management; Union and non union HRM Comparison of conventions models and HRM MODEL; IS HRM possible in India Various obstacles to its implementation, concept of learning organization and knowledge management.

MODULE 3

Concept of Human Resource Management: Meaning, objectives, scope and functions: Perspectives of Human Resource Management; linking corporate strategies and policies with Human Resources Management.

MODULE 4

Human Resource Planning: Concept of Human Resource Planning meaning objectives scope corporate planning and human resource planning process methods and techniques of human resource planning human resource information system

MODULE 5

Resourcing and recruitment, selection and socialization; legal and social constraints on employment

MODULE 6

Human resources development: Concept, meaning, objectives, training and development programmes, human resources development for managers and workers, HRD movement in India – HRD or HRM for total quality management, HRD experiences of different companies.

MODULE 7

Performance management and appraisal: Concept, objectives, philosophy and process, performance appraisal systems, performance coaching and counseling, performance management for team and team appraisal, career planning and management, promotion and transfers.

MODULE 8

Compensation/rewards system: Significance of reward system in business organization, compensation systems, the dilemma of practice, systems of promoting equity compensation/rewards, dearness allowance, employee benefits, bonus, laws on wages, bonus and social security, managerial compensation.

MODULE 9

Labour management relations: Objectives and theories of industrial relations, law on industrial relations, characteristic features of industrial relations in India, state and industrial relations, labour and industrial relations policy, changing nature of industrial relations, collective bargaining-a method of managing employment relations, productivity bargaining.

MODULE 10

Trade unions and trade unionism: Theories of trade unions, trade union law, trade unionism in India, issues and problems, employees associations, managerial unionism

BOOKS RECOMMENDED

1. VSP Rao, Human Resource Management, EB
2. Wayne F Cascio, Managing Human Resources, TMH
3. Fisher, Schoenfeldt and James Shaw, Human Resource Management, Biztantra

4. Raymond, John, Barry and Patrick, Human Resources Management, TMH
5. Robert Mathis and John Jackson, Human Resource Management, Thomson
6. Gary Dessler, Human Resource Management, Pearson
7. Jyothi and Venkatesh, Human Resource Management, Oxford
8. Angelo DeNisi and Ricky Griffin, Human resource Management, Biztantra
9. Wayne Mondy and Robert Noe, Human Resource Management, Pearson

MARKETING MANAGEMENT

Present to the students an insight into the basic concepts of marketing, Impart an grasp on the crucial topics like market segmentation, buyer behaviour, elements of marketing and marketing strategy and to develop in them application skills towards managerial decision-making based on theoretical knowledge.

MODULE 1: AN INTRODUCTION TO MARKETING AND ITS BASIC CONCEPTS

Meaning and Scope of Marketing, Fundamental Marketing Concepts, Company orientations towards the Marketplace, Marketing and customer value, Strategic Planning, Marketing plan, Marketing in the Indian Economy, implications.

MODULE 2: MARKETING TRENDS

Scanning the environment, marketing intelligence and information system, Market research system, demand measurement and forecasting, data warehousing, data mining, changing consumption pattern of global consumer and Indian consumer.

MODULE 3: CUSTOMER CONCERNS

Building and maximizing customer value, satisfaction and loyalty, constructing a customer database, analyzing consumer markets and key psychological processes, the Buyer decision process and theories of consumer decision-making, measuring customer satisfaction, customer relationship management customer profitability, customer equity, customer life time value, value chain

MODULE 4: STP AND THE MARKETING MIX

Identifying Market Segments and Targets, Brand Positioning, Creating brand equity and Brand Strategy, Product and product mix decisions, management of product lines; Product Life-Cycle marketing strategies, Pricing strategies and programs, Managing Marketing channels, Competitors, Marketing Communication, advertising and sales promotion, Events and Public Relations.

MODULE 5: NEW TRENDS

Direct Marketing, Online marketing Challenges, Network marketing, Implications of Global marketing, (country-of origin effects, marketing Organization), Corporate social responsibility in Marketing, Environmental concerns, internal marketing, outsourcing, benchmarking, supplier partnering, merging, flattening, focusing, accelerating, empowering & customer engagement

MODULE 6: RURAL MARKETING

Rural market environment, Problems of Rural Marketing, Scope, Rural Marketing Strategies, e-choupals.

BOOKS RECOMMENDED

1. Kotler & Koshy, Marketing Management – A South Asian Perspective, Pearson, 2007.
2. Rajen Saxena, Marketing Management, 3rd Edition, TMH
3. S Jayendran, Marketing Management, EB
4. Adrian Palmer, Introduction to Marketing, Oxford
5. Joel R Evan and Barry Bervan, Marketing, Biztantra
6. Czinkota and Kotabe, Marketing Management, Thomson
7. Ramaswamy and Namakumari, Marketing Management, McMillan
8. S.A. Sherlekar, Marketing Management, HPH

QUANTITATIVE METHODS & OPERATIONS RESEARCH

OBJECTIVES

To introduce students to tools and techniques of OR and to equip them to make optimal managerial decisions.

MODULE 1

Introduction to OR, Importance of OR, Scope of OR in business activities, Optimization concept, OR Models: Linear programming, Introduction to LP, Problem formulation, product mix and various managerial applications and Graphical method of problem solving, Alternate solution of LP, Duality in LP, Formulation of dual problems, advantages, its economics interpretation, Sensitivity analysis only just to know no problems need be worked out and software packages to be used to solve LP models.

TRANSPORTATION MODELS

Nature and scope of transportation and allocation models, Methods of allocation, different methods for finding initial solution – VAM, N-W Corner Rule, and other methods, degeneracy. Finding optimal solution, Tests for optimality, Imbalance in total availability and total allocation – impossible shipments, Alternate methods of solutions, and maximization as objective Scope of transportation models.

ASSIGNMENT PROBLEMS

Traveling salesman problem, Row Minimum, Column Minimum, Iteration, Balanced, Unbalanced, Infeasible, Maximization.

MODULE 2

Queuing theory (waiting line), Single server/Single Queue, Essential features of queuing system, Single Queue, Operating characteristics of queuing system, Probability distribution in queuing system, Multi server, description of other queuing models (only description)

SEQUENCING PROBLEMS

Processing 'n' jobs through 2 machines, Processing 'n' jobs through 3 machines, No 2 jobs on 'n' machines

REPLACEMENT MODELS

Replacement of items deteriorating with time, Replacement of items that fail completely, (No group replacement)

MODULE 3

Network models, Introduction to PERT, CPM techniques, Network components, precedence, events, activities, errors and dummies, Critical path analysis, float, Probabilities in PERT analysis, project time calculations, Project crashing, time cost considerations (No resource leveling)

MODULE 4

Inventory models, Meaning and importance of inventory management, , EOQ formula, economic lot size, Problems based in EOQ formula, Types of Inventory control methods

MODULE 5

Theory of games – introduction, two person zero - sum games, Saddle point, Dominance theory, description of other models and their managerial application (only description, no problems and No Graphical method)

SIMULATION

Introduction to basic concepts, Simulation procedures, Application of simulation, critical evaluation of software and using customized software.

NOTE: TEACHERS ARE ADVISED TO EXPOSE STUDENTS TO VARIOUS SOFTWARE PACKAGES, WHEREVER POSSIBLE.

BOOKS RECOMMENDED

1. JK Sharma, Quantitative Techniques, McMillan
2. ND Vohra, Quantitative Techniques in Management, TMH

3. Anderson, Sweeney, Williams, Quantitative Methods for Business, Thomson
4. JK Sharma, Operations Research, McMillan
5. Barry Render, Ralph Stair and Michael Hanna, Quantitative Analysis, Pearson
6. Frederick Hillier and Gerald Lieberman, Operations Research, TMH
7. Natarajan, Balasubramani and Tamilarasi, Operations Research, Pearson

LEGAL ASPECT OF BUSINESS

OBJECTIVES

To equip students to have the glimpses of various business legislations in the global environment and to make students understand legislations and enabling them to assert their rights emerging out business at the same time knowing the compliance of legal requirements of business transactions.

MODULE: 1

Introduction - Overview of Business laws in India - sources of business law. The constitution of India with special reference to economic principles enshrined in the constitution, Article 246 read with Schedule 7 of Indian Constitution. **(BUSINESS RELATED MATTERS ONLY)**

MODULE: 2

THE INFORMATION TECHNOLOGY ACT, 2000: Significance of E- Commerce and E-governance, paperless society importance terms in IT Act, digital signature, certifying authority, computer resources, cyber crimes, offences and penalties.

THE COMPETITION ACT, 2002: Salient features covering essentials of competition, components of competition act, competition commission of India, offences and penalties.

THE RIGHT TO INFORMATION ACT, 2005: Background, salient features covering important terms in the act, powers and functions information officers, transparency, rights of the citizens to get information of the Public Authority (Central and State Government), offences and penalties under the Act.

MODULE: 3

THE CONTRACT ACT, 1872: Salient features covering essentials of Contract, offer, acceptance, consideration, contingent Contracts. Salient features of sale of goods act 1930

THE CONSUMER PROTECTION ACT, 1986: Rights of the Consumer, Defects and deficiency, services included under the act, district forums, state commission, national commission, treatment of complaints of goods and services.

MODULE: 4

THE INDIAN PATENT ACT, 1970 & 2004: Patent, patentee, Inventions and Non-inventions, EMR, grant of patent, opposition to patent, surrender of patent, infringement of patent, WTO and patent rules, decided cases on Basumathi Rice, Turmeric, Tomato and Pharma products.

FOREIGN EXCHANGE MANAGEMENT ACT, 1999: Definition of Foreign Exchange, money changer, rules regarding ownership of immovable property, money laundering, hawala transaction, directorate of enforcement, penalties and offences.

MODULE: 5

INDIAN COMPANIES ACT, 1956: meaning of company, types of company, memorandum of Association, articles of association, IPO, book building, difference between private and public company, different kinds of meeting, agenda, quorum, resolutions, winding up of the companies.

MODULE: 6

WOMEN AND HUMAN RIGHTS AT WORK-PLACE: Gender Equality, harassment of women in organisation, types, fundamentals rights, nature of human rights, NHRC, UN protocol on Human Rights, Job reservation in private sectors, discrimination, whistle blowing, pros and cons, Supreme Court on protecting women rights at workplace.

ENVIRONMENT PROTECTION ACT, 1986: concepts of environment, environment pollution, environment pollutants, hazardous substance, occupier, types of pollution, global warning, causes for ozone layer depletion, remedies, powers and rules of central government to protect and promote environment in India.

BOOKS RECOMMENDED

1. S.S. Gulsan, Business Law, 3rd Edition, EB
2. Akhileshwar Pathak, Legal Aspects of Business, 2nd edition, TMH
3. K.R. Bulchandani, Business Law for Management, 4th edition, HPH.
4. Prof. (Cmde) P.K. Goel, Business Law for Managers, Biztantra
5. C L Bansal, Business and Corporate Laws, EB
6. P. Sarvanvel and S. Sumathi, Business Law for Management, HPH.

3.1 - ENTREPRENEURSHIP AND NEW VENTURE CREATION

Objectives:

- *To make students to understand the different dimensions of entrepreneurship.*
- *To inculcate the spirit of entrepreneurship in students and make them job creators instead of job seekers*
- *To develop the skills required to prepare a Business Plan*

Module 1 THE NATURE AND IMPORTANCE OF ENTREPRENEURS 4 hrs

Nature and Development of Entrepreneurship, Definition of Entrepreneur Today, Entrepreneurial Decision Process, Role of Entrepreneurship in Economic Development, Intrapreneurship, Entrepreneurship, Entrepreneurial Careers and Education, The Future of Entrepreneurship

Module 2 THE ENTREPRENEURIAL AND INTRAPRENEURIAL MIND 6 hrs

The Entrepreneurial Process, Identify and Evaluate the Opportunity, Develop a Business Plan, Determine the Resources Required, Manage the Enterprise, Managerial versus Entrepreneurial Decision Making, Causes for Interest in Intrapreneurship, Corporate versus Intrapreneurial Culture, - Climate for Intrapreneurship, Intrapreneurial Leadership Characteristics, Establishing in the Organization, factors affecting entrepreneurship — qualities of successful entrepreneurship.

Module 3 SMALL & MEDIUM ENTERPRISES (SME) 4 hrs

Role of SME, concept and definitions of SME, government policy and SME in India, growth and performance of SME sector, problems for SMEs, Sickness in SME, criteria to identify sickness, causes, symptoms and remedial measures of sickness, institutional support for SMEs.

Module 4 STARTING THE BUSINESS - BUSINESS IDEA & INNOVATION 8 hrs

Business idea, Opportunity Recognition , Product Planning and Development Process, Establishing Evaluation Criteria, Idea Stage, Concept Stage Product Stage, Test Marketing Stage, Creativity, Innovation and entrepreneurship, barriers to creativity, techniques for improving the creative process, corporate entrepreneurship, causes, climate, intrapreneurial leadership characteristics, Establishing intrapreneurship in the organization

Module 5 LEGAL ISSUES FOR THE ENTREPRENEUR 4 hrs

Various forms of organization, Legal Issues in Setting up the Organization, The various statutory registrations and clearances required.

Module 6 PROJECT PREPARATION AND APPRAISAL**6 hrs**

Project Preparation, feasibility and evaluation, what is the Business Plan? Various types of business plans, Format of business plan, Writing of business plan, Using and Implementing the Business Plan, Measuring Plan Progress, Updating the Plan, Why Some Business Plans Fail, Different sections of the business plan - The marketing plan, The organization plan, The financial plan

Module 7 FINANCING THE NEW VENTURE**6 hrs**

Sources of capital - An Overview, Debt or Equity Financing, Internal or External Funds, Funding from Banks and Financial institutions, Governmental and Developmental Sources, Various schemes, Types of Loans, Procedure, Private Placement, Types of Investors, Private Offerings, Bootstrap Financing, Venture Capital, Nature of Venture Capital, Approaching, presenting and obtaining the funds, FDI

Module 8 MANAGING and GROWING THE NEW VENTURE**8 hrs**

Risk Reduction Strategies for New Entry Exploitation, Market Scope Strategy, Imitation Strategies, and Growth Strategies: Where to Look for Growth Opportunities, Penetration Strategies, Market Development Strategies, Product Development Strategies, Diversification Strategies, turnaround strategies.

Module 9 CORPORATE VENTURING**14 hrs**

The necessity of Corporate Venturing, Various Misconceptions, Creating the Right Environment, Formalizing the Vision for The Venture, Validating the Venture Concept, The Alpha Stage: The Shift from Planning to Product Creation, Building the Prototype of the Business, Testing the Waters, The Beta Launch, From Corporate Venture to Business, Market Calibration and Expansion, Capturing Strategic Value

REFERENCE BOOKS:

1. M.lall, Entrepreneurship, Excel books
2. Vasant Desai :- Dynamics of Entrepreneurial Development and Management-HPH
3. Hisrich, robert d., peters, michael p., and shepherd, dean a: entrepreneurship, tata mcgraw-hill; sixth edition, 2007
4. Mathew J Manimala :- Entrepreneurship at the Crossroads - Biztantra
5. Mohanty – Fundamentals of Entrepreneurship, Prentice Hall of India
6. Zimmerer & Scarborough – Essentials of Entrepreneurship & Small Business Management, Prentice Hall of India

3.2 BUSINESS ETHICS AND CORPORATE GOVERNANCE

OBJECTIVE: To enable students to critically examine ethical dilemmas and to understand the importance of governance mechanisms in a globalized economy.

Module 1 AN OVERVIEW OF BUSINESS ETHICS

10 hrs

Definition and Nature of Business ethics, Need and benefit of business ethics, History of the development of business ethics, Arguments for and against business ethics, Economic issues, Competitive issues, Legal and Regulatory Philanthropic issues, Framework for ethical decision making – Individual factors, organizational factors, Corporate Governance — a dimension of ethical making,

Module 2 INDIVIDUAL & ORGANISATIONAL FACTORS

10 hrs

Moral philosophy — definition and different perspectives, Teleology and Deontology, The relativist perspective, Virtue ethics, Justice and Fairness, The of care, Integration of the various perspectives, Cognitive moral development, Moral reasoning, The role of Corporate Culture and Leadership, structure and business ethics, Interpersonal relationships in organization, The role of opportunity and conflict,

Module 3 EXTERNAL CONTEXT

10 hrs

Ecology: The dimensions of pollution and resource depletion, the ethics of control, the ethics of conserving depletable resources. Consumers: -Markets and consumer Protection, The due care theory, the social costs view of duties, Advertising Ethics, Consumer Privacy

Module 4 INTERNAL CONTEXT — EMPLOYEE

10 hrs

Job discrimination — its nature and extent, Discrimination — utility, rights and justice, Affirmative action, Gender issues, The employee's obligation to the firm, Thee firms duties to the employees, The employee Rights, Need for organizational ethics program, Code of Conduct Ethics training and communication, systems to Monitor and enforce ethical standards, The ethics audit,

Module 5 BUSINESS ETHICS IN A GLOBAL ECONOMY

10 hrs

Ethical perceptions and international business, Global values, the multinational corporation and various ethical issues, cross cultural, cross religion & cross racial issues.

Module 6 CORPORATE GOVERNANCE

10 hrs

Meaning, Accountability issues, current context of CG in India, Board objectives and strategies, role of independent directors, board structure, performance evaluation of board, training and development of directors. Accounting standards & accounting disclosures.

REFERENCE BOOKS:

1. Hartman, Laura P; Perspectives In Business Ethics; Mcgraw-Hill
2. C.V. Baxi, Corporate Governance, Excel Books.
3. O C Ferrell-Business ethics-Biztantra.
4. P.S.Bajaj,Raj Agarawal :-Business Ethics Biztrantra
5. Steiner And Steiner; Government And Society; Mcgraw-Hill
6. Velasquez – Business Ethics: Concepts & Cases, Prentice Hall Of India
7. Prasad – Corporate Governance, Prentice Hall Of India
8. Gopaldaswamy – Corporate Governance, New Age International (P) Ltd.,

M1 - BUSINESS MARKETING

Course objective

The subject is designed to give insights to the students about the applications of marketing concepts in business to business marketing scenario as it is different from consumer marketing due to some inherent characters. As industrial or business marketing is emerging as one of the major employment provider, the subject needs a special attention.

Module 1 BUSINESS MARKETING PERSPECTIVE

14 hrs

Understanding of the concept of Business marketing in contrast with the consumer marketing, Characteristics of Business Marketing, nature of industrial goods and services, Classification of Industrial products. Classification of Industrial customers-commercial enterprises, government, institutions. Unique characteristics of each type of industrial customers. Marketing strategies for each of industrial customer categories, Market segmentation and B2B Marketing.

Module 2 DIMENSIONS OF BUSINESS MARKETING

14 hrs

What is Industrial/Business Marketing; Difference between Business and Consumer Marketing; Nature of Demand in Industrial Markets, Types of Organizational customer; Classifications and characteristics of Industrial Products, Purchasing Orientations and Practices of Business Customers; Environmental Analysis in Industrial/ Business Marketing.

Module 3 MANAGEMENT OF MARKETING CHANNELS

10 hrs

Business marketing channels, participants in the business marketing channel design, channel administration, types of resellers, and selecting channel members, motivating channel members, channel member performance

Module 4 BUSINESS ADVERTISING, SALES PROMOTION & PUBLIC RELATIONS

12 hrs

The role of advertising in Business marketing, managing B-B advertising, publicity, internet based marketing communications, measuring advertising effectiveness, advertising budgets, sales promotion, tradeshows, Role of personal selling in business marketing, sales force organization, recruitment, selection, training, motivation, compensation, performance evaluation, sales effort control, sales territories, quotas, account management

Module 5 PRICING DECISIONS IN BUSINESS MARKETING

10 hrs

Meaning of price, cost fundamentals, industrial pricing process, pricing across PLC, Competitive bidding, strategies for competitive bidding, pricing strategies, pricing objectives, pricing methods

REFERENCE BOOKS:

1. Krishna K Havaldar; Industrial Marketing; Mcgraw-Hill
2. H.S. Mukherjee, Industrial Marketing, Excel Books
3. Industrial Marketing, Robert Reeder, Prentice Hall Of India,pearson
4. Francis Cherunilam-Industrial Marketing - HPH

M2 - SERVICES MARKETING

Objectives:

- *To develop insights in to the field of services marketing;*
- *To make student understand the differences between marketing of goods and services;*
- *To expose the students to marketing in various services industries of India.*

Module 1 INTRODUCTION

12 hrs

Emergence of GATS in world trade — Service sector and Indian economy- Definition and characteristics of services Difference between goods and services — Gaps model of service quality.

Module 2 FOCUS ON THE CUSTOMER

10 hrs

Consumer behavior in services: - Search, experience and credence properties; Consumer choice

Module 3 CUSTOMER EXPECTATIONS

8 hrs

Meaning, types and influencing factors, Customer perceptions: - Customer satisfaction; service quality and service encounters. Customer relationship and marketing research

Module 4 SERVICES MARKETING MIX

15 hrs

4Ps of Marketing: - Service product (including service blueprinting), price, place and promotion. Expanded mix: - people, process and physical evidence.

Module 5 SERVICE INDUSTRIES IN INDIA

15 hrs

Marketing strategies in service sectors like financial, hospitality, wellness (health care), telecom, tourism, retail, NGOs and public utility services,

REFERENCE BOOKS:

1. C. Bhattacharjee, Services Marketing, Excel Books
2. Valarie A Zeithamal, Mary Jo Bitner, Dwayne D Gremler and Ajay Pandit, "Services Marketing" Special Indian Edition, Tata Mc Graw Hill, 2008
3. Dr.S.Sahajan – Services Marketing – HPH
4. Kenneth C Clow , David L. Krutz :- Services Marketing, Biztrantra
5. Christopher Lovelock, and Jochen Wirtz, "Services Marketing- People, technology, strategy", Prentice Hall
6. K Douglas Ioffinan and John E.G Bateson, "Essentials of Services Marketing: Concepts, Strategies and cases", Thomson, 2002
7. Rajendra Nargundkar, "Services Marketing — Text and cases",Tata Mc Graw Hill
8. Ravi Shankar, "Services Marketing — The Indian Perspective," Excel Books
9. R. Srinivasan," Services Marketing — The Indian context", First Edition, Prentice Hall of India, 2004

M3 - SALES AND MARKETING CHANNEL MANAGEMENT

Course Objective

The Course has been designed to understand the importance of sales management and Marketing channel management for the overall success of the marketing efforts of an organization. The course deals with various aspects of sales management for coordinated sales efforts in achieving the over all corporate goals and effective management of marketing channels

Module 1 INTRODUCTION TO SALES MANAGEMENT

4 hrs

Sales Management: Its Nature, Rewards, and Responsibilities, Social, Ethical, and Legal Responsibilities of Sales Personnel

Module 2 PLANNING THE SALES TEAM'S EFFORTS

9 hrs

Building Relationships through Strategic Planning, The Market-Driven Sales Organization, Forecasting Market Demand and Sales Budgets Design and Size of Sales Territories, Sales Objectives and Quotas, **staffing the Sales Team** - Planning for and Recruiting Successful Salespeople, Selection, Placement, and Socialization of Successful Salespeople, **Training the Sales Team** - The Management of Sales Training and Development, Contents of the Sales Training Program: Sales Knowledge and the Selling Process, **Directing The Sales Team** - Motivating Salespeople toward High Performance, Compensation for High Performance, Leading the Sales Team

Module 3 CONTROLLING THE SALES TEAM

6 hrs

Analysis of Sales and Marketing Costs, Evaluation of Salespeople's Performance, Comprehensive Sales Force Cases and Exercises

Module 4 MARKETING LOGISTICS

7 hrs

Logistics and its importance, Functions of Logistics management - Procurement /Purchasing, Inward Transport, Receiving, Warehousing, Stock Control, Order Picking, Materials Handling, Outward Transport, Physical Distribution Management, Recycling, Returns, and Waste Disposal, Importance of Communication in Logistics, Technology in Logistics- Electronic Data interchange (EDI), Artificial Intelligence, Expert Systems, Communication Technology, Bar Coding and Scanning, Streamlining the Logistics Process, Strategic Issues in Logistics Management

Module 5 MARKETING CHANNELS

7 hrs

Evolution of Marketing Channels- The Production Era, The Sales Era, The Marketing Era, Relationship Marketing Era, Channel member and their roles, Roles of Channel Members, Channel Functions, Designing marketing channels - Channel Structure, Channel Intensity, Types of Channel Intermediaries at Each Level, Channel Flows and Costs

Module 6 CHANNEL INTEGRATION**7 hrs**

Importance of Channel Integration, Vertical Marketing Systems, Types of vertical marketing systems - Corporate VMS, Administered VMS, Contractual VMS, Horizontal Marketing Systems, Hybrid channel system, Designing and Managing Hybrid Channel Systems

Module 7 CHANNEL MANAGEMENT**10 hrs**

Recruiting Channel, Members - Recruiting as a Continuous Process, Recruiting Manufacturers, Screening, Criteria for Selecting Channel Members - Sales Factors, Product Factors, Experience Factors, Administrative Factors, Risk Factors, Motivating Channel Members, Distributor Advisory Councils, Modifying Channel Arrangements - PLC Changes, Customer-Driven Refinement of Existing Channels, Growth of Multi-Channel Marketing Systems, Managing Channel Relationships - Cooperation and coordination, Conflict, Power

Module 8 WHOLESALING & RETAILING**10 hrs**

Wholesaling and its importance, Types of Wholesalers - Merchant Wholesalers, Agents and Brokers, Manufacturer's Wholesalers, Strategic Issues in Wholesaling - Target Market Decisions, Marketing Mix Decisions Trends Shaping Wholesale Distribution - Functional Overlap, Increased Services, Pricing and Credit,, Regional Coverage Organizational Form and Size, Impact of Information Technology on Wholesaling - Challenges in Wholesaling -Inventory Management, Sales Management, Promotion Management, Financial Planning and Management - Retailing and its Importance - Importance to Consumers, Source of Employment - Evolution of Retailing and types of retailing

REFERENCE BOOKS:

1. Sales And Distribution Management, Tapan Panda And Sunil Sahadev, Oxford Publications
2. Sales Management, Still And Cundiff, PHI
3. S.L. Gupta, Sales & Distribution Management, Excel Books
4. Marketing Channels, Coughian, Anderson, PHI
5. Sales And Distribution Management; Krishna Havaladar And Cavale; Tata Mcgraw-Hill
6. Sales Management, Dasgupta, PHI

F1 - INVESTMENT ANALYSIS & MANAGEMENT

Course Objective

1. To provide students with a conceptual framework of evaluating various investment avenues.
2. To provide students with a conceptual and analytical framework of different financial instruments, markets, regulations, their risk and returns and strategies in managing funds.
3. To familiarize students with portfolio management techniques that challenges a financial manager.
4. To give an overview of the global markets and their impact on the domestic markets

Module 1 INTRODUCTION TO INVESTMENTS

6 hrs

Definition — micro & macro economic concepts relating to investment - investment objective — investment process - investment constraints — investment strategy — investment v/s speculation — arbitrage - gambling — types of investors — investor behavior

Module 2 INVESTMENT AVENUES

7 hrs

bonds — debentures - Preference shares — Equity Shares — Real Estate— commodity markets — bank deposit — insurance — mutual funds — foreign exchange - Money market instruments — derivatives — forward - futures — options — swaps

Module 3 STOCK MARKET & INSTITUTION

9 hrs

Dematerialization of securities, Primary Market — IPO, Book Building, FPO, Rights Issue, Bonus Issue & Preferential Issue, Secondary Market — Cash & Derivatives Markets, Trading Procedure, Margin System, Settlement process, Market Indices, Role of Stock Brokers, Stock Exchanges & SEBI.

Module 4 RISK MANAGEMENT

9 hrs

Definition, meaning and measurement of Risk — Classification of Risk — diversification — Statistical tools used in risk management - techniques of risk mitigation - risk return optimization — credit rating - beta coefficient — hedging – Using derivatives in risk management

Module 5 INVESTMENT ANALYSIS

7 hrs

Sources of information on investment — factors affecting investment — Fundamental analysis — Technical analysis — efficient market Hypothesis

Module 6 INVESTMENT EVALUATION**7 hrs**

Concept — Time value of Money - various valuation methods & models — bond valuation — equity valuation — futures pricing — options pricing — tangible asset valuation, Tax issues relating to investments

Module 7 PORTFOLIO MANAGEMENT**8 hrs**

Concept — Markowitz model — Sharpe, Jensen & Treynor Model CAPM — SML and CML — factor model and arbitrage pricing theory — Portfolio construction, revision & evaluation

Module 8 GLOBAL MARKETS**7 hrs**

Global Investment benefits, World market indexes, Developed and Emerging Markets, ADRs, GDRs, FCCBs, Foreign Bonds, Global Mutual Funds, Relationship between trends in global markets and the domestic markets,

REFERENCE BOOKS:

1. Sudhindra Bhat, Security Analysis And Portfolio Management, Excel Books
2. Fischer And Jordan; Security Analysis And Portfolio Management; Prentice-Hall,pearson
3. Prasanna Chandra; Investment Analysis And Portfolio Management; Mcgraw-Hill
4. Preeti Singh – Investment Management- HPH
5. Bhalla V K; Investment Management; S Chand & Co
6. Alexander & Bailey, Fundamentals Of Investments, PHI
7. Portfolio Management, Kevin, PHI

F2 - FINANCIAL MARKETS & INTERMEDIARIES

Course Objective

- *To provide students with conceptual and regulatory framework within which the financial intermediaries operate.*
- *To familiarize students with the various management and operational aspects of markets and financial intermediaries.*

Module 1 THE NATURE AND ROLE OF FINANCIAL SYSTEM

8 hrs

Structure of a Financial System - Functions of Financial Sector - Financial System and Economic Development — Indian financial system — SEE3I - Financial sector reforms - Reserve Bank of India - Organization and Management -Role and Functions - Monetary Policy of the RBI - Recent Policy Developments

Module 2 BANKS & INSTITUTIONS

12 hrs

Banks — Operations & Special Role of Banks — Specialized Financial Institutions — EXIM, NABARD, HUDCO, SIDBI, IFCI - Universal Banking & Innovations — Securitization — RTGS & ECS - Co—operative Banks — Features, Types, Structure and Growth, Small Savings and Provident Funds - Provident Funds- Pension Funds — Life insurance Companies - General Insurance Corporation

Module 3 NON-BANKING FINANCE COMPANIES

8 hrs

NBFCS. an Overview - Loan Companies - Investment Companies — Leasing & Hire Purchase - Housing Finance — Chit Funds - Mutual Benefit Financial Companies -Venture Capital Funds - Factors & Forfeiting - Credit Rating - Depository and Custodial Services

Module 4 MERCHANT BANKING & FINANCIAL SERVICES

10 hrs

Project appraisal, Designing capital structure and instruments, issue pricing, preparation of prospectus, Issue Management, Underwriting, Mergers & Amalgamations, Corporate Advisory Services, Bought out deals, Private Placement, Institutional Placement, Debt Syndication, Regulation of Merchant Bankers,

Module 5 MUTUAL FUNDS

8 hrs

Organization - Types of Funds - Valuation of Units - Structure and Size Investment Pattern - Return on Investment in Units — Regulations

Module 6 FINANCIAL MARKETS**14 hrs**

The stock market in India — Primary and secondary markets — OTC markets — regulations — new issues market — underwriting - Call Money Market - Treasury Bills Market — Commercial Bills Market - Markets for Commercial Paper and Certificate of Deposits - The Discount Market - Government (Gilt — edge) Securities Market. Markets for Futures, Options, and Other Financial Derivatives - Foreign Exchange Markets - Interest Rate Futures Market

REFERENCE BOOKS:

1. Livingston, Miles; Financial Intermediaries; Blackwell
2. Financial Institutes And Markets, Sudhindra Bhat, Excel Books
3. Avadhani – Marketing of Financial Services - HPH
4. Niti Bhasin; Banking And Financial Markets In India 1947 To 2007; New Century
5. Mutual Funds: Data, Interpretation & Analysis, Sahadeven & Thiripalraju, PHI

F3 - TAX COMPLIANCE & MANAGEMENT

Course Objective

To make the student understand the basic concepts of taxation and its computation, the proper compliance of various provisions of the direct and indirect tax laws and to make financial decision considering 'the pros and cons of various tax laws and business functioning

MODULE 1: CONCEPTS AND FRAMEWORK OF TAXATION **10 HRS**

Tax – Meaning, Types, Principles of Direct Taxation; Basics Concepts – Assessee, Assessment, Person, Assessment Year, Previous Year, Heads of Income, Total Income, Tax Planning, Tax Avoidance and Tax Evasion; Residential Status of Individuals and Companies - Incidence of Tax.

Module 2 INCOME TAX **14 hrs**

Heads of income, Computation of Individual Income Tax, Computation of HUF Income Tax, Computation of Corporate Income Tax, Set off and Carry forward of Losses, Fringe benefit Tax, Banking Cash Transaction Tax, Securities Transaction Tax, MAT, TDS & TCS, Tax planning/avoidance/evasion, Returns & Compliance

Module 3 CUSTOMS, CENTRAL EXCISE AND SERVICE TAX **14 hrs**

Procedure relating to levy, valuation and collection of duty, types of duty, exemptions Export Promotion Schemes, Nature of Excise duties, Excisability of Products, Cenvat Credit; Classification of Excisable Goods, Valuation of Excisable goods, Important Central Excise procedures, Service Tax, Concepts, applicability, and procedures, Returns & Compliance

Module 4 SALES TAXES AND CUSTOM ACT **10 hrs**

Nature of Excise duties, Cenvat credit, Excisability of Products, Classification & Valuation excisable goods, important central excise procedure, Introduction to Customs Duty, Procedure relating to levy, valuation & collection of duty, types of duty, Exemption Export promotion schemes.

Module 5 TAX PLANNING AND MANAGEMENT **12 hrs**

Purchase of Assets. — Own funds | Borrowed Funds | Lease, Installment vs. Hire, Make or Buy, Replace or Repair, Capital Structure and Dividend Decisions, Amalgamation and De-merger, Tax implications of international operations

BOOKS FOR REFERENCE:

1. Singhanian, Vinod, "Direct Taxes – Law and Practice", Taxmann Publications.
2. Ahuja, Girish and Gupta, Ravi, "Professional Approach to Direct Taxes", Bharat Publications.
3. Mehrotra and Goyal, "Direct Taxes", Sahitya Publishing.
4. Singhanian, Vinod, "Direct Taxes – Planning and Management", Taxmann Publications.
5. U.S.Datey – Indirect Taxes Law & Practice – Taxman Publications

H1 - HUMAN RESOURCES ACQUISITION AND DEVELOPMENT

MODULE 1 HUMAN RESOURCE PLANNING:

Issues in Strategic Human Resources Management, Human Resource Planning - Definition, Objectives, Importance, Factors affecting HRP, Process of HRP Employee Forecasting – Trend analysis, Ratio Analysis, Scatter Plot, Computerized Forecasting , Delphi Method, Manager Judgment, Supply forecasting.

MODULE 2 JOB ANALYSIS

Meaning, Purpose, Process, Methods of Collecting Data. Job Description – Contents, Writing Job Description, Job Specification, Job Enrichment.

MODULE 3 PROCUREMENT, SELECTION AND INDUCTION

Recruitment- Meaning and Process; Sources of Recruitment, Internal and External Source, Modern Techniques of Recruitment, Sources- Internet Based, Placement Agencies. Selection - Meaning, Essentials of Selection Procedure, Selection Hurdles, Selection Procedure - Application Blank; Employment Tests- Utility and Validity. Employment Interviews- Principles and Techniques, Medical Text, Reference Check Appointment- Terms and conditions. Induction –Meaning, Induction Programme –formal or informal, individual or collective, serial or disjunctive Investiture or Disinvestiture, Requisites of effective programme.

MODULE 4 TRAINING

Concept of Training and Development, Need for training , Importance of Training , Difference between Training and Development, Principles of Training and areas of training. Assessment of Training Needs, Training Methods- On the Job and Off Job Methods, Electronic Training – Computer Based training, Electronic performance support system(EPSS) , Distance and Internet Based Training.

MODULE 5 EVALUATION OF TRAINING

Purpose of Evaluation, Evaluation Process, evaluation of system, evaluation of methodology, evaluation of resource person, evaluation of contents, competency mapping, feedback & control.

REFERENCE :-

1. Ricky W Griffin – Human Resource Management –Biztantra.
2. Richard Regis – Strategic Human Resource Management – Excel books
3. Human Resource Management –Cynthia and Fisher- Biztantra
4. D.K Bhattacharya – Human Resource Planning – Excel Books
5. G. Pandu Naik - Training and Development –Excel Books
6. Dr Janikiran- Training and Development -Biztantra
7. Thomess Kutti - Training for Development – HPH
8. R.K Sahu – Training for Development – Excel Books

H2 – EMPLOYEE RELATIONSHIP MANAGEMENT

MODULE 1. INDUSTRIAL RELATIONS

Meaning & Objectives, Importance, Approaches to Industrial Relations - Unitary, Pluralistic, Marxist. Role of Three Actors to Industrial Relations – State, Employer & Employees, Causes for poor IR, Developing sound IR. Ethical approach to IR: Idea of trusteeship- Principles & features, Code of conduct.

MODULE 2. TRADE UNION

Meaning, why do workers join unions, Types of trade unions, Theories to trade Union, Trade union movement in India, Problems of trade unions, Functions of trade unions, Measures to strengthen trade unions, Trade union Act – Registration of trade unions, Need for Recognition & Rights to recognition of trade unions, Central trade unions in India.

MODULE 3. INDUSTRIAL DISPUTES

Definition, Causes of Industrial disputes, Types of Industrial disputes, Prevention of Industrial disputes, Settlement of Industrial disputes. Industrial Dispute Act – Conditions to Strikes, Lock-outs, Lay-off & Retrenchment and Laws relating to standing orders.

MODULE 4. COLLECTIVE BARGAINING

Definition, Importance, Prerequisites of collective bargaining – Union bargaining process – Types of bargaining– Collective bargaining in India. Grievance & Disciplinary procedure – Meaning, Need & procedure.

MODULE 5. INTEGRATION OF INTEREST AND MANAGING CAREERS

Career Planning, Factors affecting Career Choices; Career Stages, Career anchors, Need for Career Planning, Managing Promotions, Transfers & Demotions. Individual & organizational problems in Integration. Integration process.

MODULE 6. QUALITY OF WORK LIFE AND QUALITY CIRCLES

Meaning of quality of work life – Quality Circles- Objectives- Process, Structure and problems- workers participation in management and quality circles – Concept of empowerment.

REFERENCE

1. B.D Singh - Industrial Relations – Excel Books
2. Mamoria & Mamoria ; - Dynamics of Industrial Relations in India - HPH

H3 – PERFORMANCE AND COMPENSATION MANAGEMENT

MODULE 1 PERFORMANCE MANAGEMENT

Definition, Objectives, Need for Appraisal, Essentials of performance appraisals and problems of performance appraisal, Methods of Performance Appraisal- Traditional and Modern Methods- Graphic Rating-Scale, Straight Ranking Method, Paired Comparison Method, Critical Incident Method, Group Appraisal, Confidential Methods, Behavioral Anchored Rating Scale (BARS), Assessment centers

MODULE 2 WAGE & SALARY ADMINISTRATION

Nature and Scope, Compensation, wage determination process, Factors Influencing wage and Salary Administration. Wage – Theories of Wages, Types of wages – Time rate, piece rate, debt method, Wage differentials.

MODULE 3 PLANNING FOR IMPROVED COMPETITIVENESS

Diagnosis and Bench Marking, Obtaining Commitment; Determination of Inter and Intra-industry, Compensation Differentials, Internal and External Equity in Compensation Systems.

MODULE 4 INCENTIVES AND FRINGE BENEFITS

Incentives – Def , Types of Incentives, Individual incentives : Measured day Work, Piece work, standard hour, Gain sharing, its advantages and disadvantages, Organisation Wide incentives – Scanlon Plan, Kaiser Plan, Profit sharing, Non-financial incentives, Fringe Benefits – Definition, Objectives, Types of Fringe Benefits

MODULE 5 INDIVIDUAL GROUP VARIABLE COMPENSATION

Pay for Performance, Pay by Seniority, Group Piece rate, Production sharing plan, Employee Profit sharing, Employee stock ownership, Gain Sharing

MODULE 6 INCENTIVES AND RETIREMENT PLANS

Basic Pay, Provisions for Dearness allowance- Calculation of total compensation package, various methods of compensating cost of living, Neutralization factors. Executive Compensation Plan, Retirement Plan

REFERENCE :-

1. B.D Singh - Compensation & Rewards management – Excel Books
2. Cynthia D Fisher –Human Resource Management -5th Edition-Biztantra.
3. A M Sharma – Aspects of Labour Welfare and Social Security - HPH
4. Lawrence Kleiman-Human Resource Management -3rd Edition-Biztantra
5. R.K Sahu – Performance management systems – Excel Books

S1 :SOFTWARE ENGINEERING MANAGEMENT

OBJECTIVE: Understand and appreciate concepts and practices of modern Software Engineering Management.

Module 1: OVERVIEW OF SOFTWARE ENGINEERING

Software Engineering as a discipline, Software processes, Software projects

Module 2: REQUIREMENTS

Requirements engineering processes, System models, Software prototyping, Formal specification.

Module 3: SOFTWARE DEVELOPMENT MODELS

Waterfall model, Spiral model, Incremental Development, Evolutionary Development, Re-use oriented Development

Module 4: DESIGN

Architectural design, Distributed Systems architecture, OO design, Real-time software design, Design with reuse, User Interface design.

Module 5: SOFTWARE QUALITY

Verification and Validation, Software testing, Critical systems validation, CMM and PCMM concepts.

Module 6: MANAGEMENT

Managing people, Software cost construction, Quality Management, Process Empowerment

Module 7: EVOLUTION

Legacy Systems, Software change, Software re-engineering, Configuration Management

S2 :SOFTWARE DESIGN & PROJECT MANGEMENT

MODULE 1: SYSTEM ANALYSIS & DESIGN:

Overview of system analysis & Design: Introduction to different methodologies & structured system analysis – Details of SDLC approach – mini cases – E-R diagrams – DFD concepts – Data dictionary concepts. Structure charts – modular programming – I/O & file design consideration – Entity Life histories (ELH).

MODULE 2: SYSTEM IMPLEMENTATION:

System implementation & maintenance: Implementation Strategies – SW/HW selection & procurement – Control & security – issues of designing & implementing on-line systems – data communication requirements – system conservation approaches & selection issues.

MODULE 3. PROJECT DEVELOPMENT & DATABASE DESIGN

Introduction to Database technologies & CASE tools with specific packages – overview of relational model – Database creation – SQL command – Normalization – designing forms & reports – using CASE tools for system analysis & design-case studies – Cost / benefit analysis – project & resource planning – design & development testing & documentation.

MODULE 4. SOFTWARE PROJECT MANAGEMENT

Software project management: challenges & opportunities – changing technologies & approaches – choice development of methodologies & technical platforms, project management techniques – monitoring & measurement of progress.

MODULE 5. SOFTWARE PROJECT MANAGEMENT

Software project management – elements, cost estimation, manpower planning, Software & Product Metrics – Quality assurance & control-standards & documentation – testing – implementation – training – technology management – quality standards – certificate – handling multiple projects, issues of share development.

Text Books:

1. Senn, J.A. “Analysis & Design of Information Systems”, “McGraw Hill Publications.
2. Beaver, ‘An Introduction to Managing Software Projects’.
3. Marco, T.D. “Structured Analysis & System Specification”, Prentice Hall Publications.
4. C.S.V.Murthy – System Analysis and Design - HPH

S3 :DATABASE MANAGEMENT SYSTEM

MODULE 1: INTRODUCTION

Database systems – Definition – Components – Advantages – Objectives – Evolution.

MODULE 2: MODELS

DBMS Architecture – Associations – Relationships – Mappings between Abstractions – Generalisation – Classifications – Conceptual Data modeling – File Organization – Data Structure – Data models: HDBMS, NDBMS, RDBMS, OODBMS.

MODULE 3: DATABASE DESIGN

Relational Data Model – Relational Algebra – ER Diagrams – Data Dictionary – Normalisation – Boyce Codd Normal Forms – Integrity – Relational Database Languages – Database Administration – File Structures and Indexing.

MODULE 4: OBJECT MODELLING

Object oriented concepts – Structure – Models and Databases – Object life cycle modeling – Objects, Classes, Patterns – Object interaction modeling – Object Oriented Design – UML.

MODULE 5: OPERATIONS AND MANAGEMENT

Client / Server and Databases – Data Warehousing – Query Processing – Concurrency Management – Heterogeneous and Homogenous Systems – Distributed Databases – Controls – Atomicity, Recovery – Security, Back-up and Recovery.

TEXT BOOKS

1. Gary W.Hansen and James V.Hansen, “Database Management and Design”
Prentice Hall
2. C.S.V.Murthy – Data Base Management Systems-HPH



IV SEMESTER COMPULSORY PAPERS

4.1 STRATEGIC MANAGEMENT

4.2 INTERNATIONAL BUSINESS

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4.1 STRATEGIC MANAGEMENT

OBJECTIVE: To integrate the functional areas of management and to enable understand business from a strategy formulation and implementation perspective.

Module 1 CONCEPT OF STRATEGY:

6 hrs

Defining strategy, Levels at which strategy operates, Strategic Decision Making and Approaches to Strategic Decision making, Mission and Purpose, Objectives and Goals, Strategic Business Units, Corporate Planning Process

Module 2 ENVIRONMENT ANALYSIS AND DIAGNOSIS

8 hrs

Concept of Environment and its components, Environment scanning and appraisal, organizational appraisal, Strategic advantage analysis and diagnosis, SWOT analysis

Module 3 STRATEGY FORMULATION & CHOICE OF ALTERNATIVES

12 hrs

Strategies — Modernization, Diversification, Integration, Merger, Take-over and Joint Venture strategies, Turnaround -- divestment and Liquidation strategies, of Strategic Choice — Industry, competitor and SWOT analysis; Synergy and Dysergy, GAP Analysis; Porter's Five forces Model of competition; Mckinsey's 7's framework; GE-9 Cell Model, Bostan's Consultancy Model, Distinctive competitiveness; Selection of matrix, Factors affecting Strategic Choice — Cost, Leadership, Differentiation focus, value chain analysis, bench marking, service blue printing.

Module 4 STRATEGY IMPLEMENTATION

10 hrs

Inter-relationship between formulation and implementation; Issues in strategy implementation, Resource Allocation, Budgets, Organization structure, Matching and strategy, Behavioural Issues — Leadership styles, Corporate culture and values power, Social Responsibilities — Ethics, Building capable organization; Functional Issues — Financial, Marketing, Operations and Personnel Plans an Policies

Module 5 STRATEGY AND STRUCTURE

8 hrs

Structural Considerations, Structure for strategies, Organizational design and change.

Module 6 STRATEGY EVALUATION

8 hrs

Importance, Symptoms of malfunctioning of strategy, Overview of strategic control, techniques of strategic evaluation and control, Control, Tailoring strategy to fit specific industry and company situation, strategy and competitive advantage in diversified agencies, Evaluating the strategies of diversified agencies.

Module 7 CONTEMPORARY ISSUES

8 hrs

Strategies for competing in globalizing markets, New Business Models and strategic for Internet Economy, technology and innovation, entrepreneurial ventures and strategies for SME, strategic issues in Non-profit organizations.

REFERENCE BOOKS:

1. U Kachru, Strategic Management, Excel Books
2. Hitt, Ireland And Hoskisson; Strategic Management; Thompson
3. Hill And Jones; Strategic Management; Biztantra
4. N. Balwani, Strategic Management & Business Policy, Excel Books
5. Thomson And Strickland; Strategic Management; Mcgraw-Hill
6. David – Strategic Management – Concepts And Cases, Prentice Hall Of India
7. Srinivasan, Strategic Management – Indian Context, Prentice Hall Of India

4.2 INTERNATIONAL BUSINESS

OBJECTIVE: To facilitate an understanding of International Business in a multi-polar, multi-cultural world; to examine the critical factors for success in different countries.

Module 1 INTRODUCTION

10 hrs

Definition — Trade and Investment flow — International trade- theories of international trade -Economic theories — forms of international business

Module 2 INTERNATIONAL BUSINESS ENVIRONMENT

10 hrs

Globalization of business — WTO and trade liberalization — emerging issues — implications for India — Regional Trade Blocks — Inter — regional trade among regional groups.

Module 3 GLOBAL BUSINESS STRATEGIC MANAGEMENT

12 hrs

Structural design of MNE's — Strategic planning — Strategic considerations- National VS Global competitiveness.

Module 4 EXIM TRADE.

12 hrs

Export trade, procedure, steps and documentation direction of India's trade, Export financing — document related to export trade — Export marketing —Import trade, procedure and steps documentations and problems, EXIM policy, Balance of payment. Institutions connected with EXIM trade.

Module 5 CONTROL & EVALUATION OF INTERNATIONAL BUSINESS

10 hrs

Control MNE's — approaches to control — the role of information systems — performance measurement — mechanics of measurement — various, performance indicators—Evaluation and Evaluation systems

Module 6 CONFLICT IN INTERNATIONAL BUSINESS & NEGOTIATIONS

6 hrs

Factors causing conflict — Conflict resolution actions — the role of negotiations in international business — the role of international agencies in conflict resolution.

REFERENCE BOOKS:

1. Francis Cherunilam; International Business, Prentice Hall Of India
2. Hill; International Business; Mcgraw-Hill
3. Shukla, International Business, Excel Books
4. Francis Cherunilam- International Business Environment – HPH
5. S.N.Charry :- Elements of International Business, Biztrantra
6. Harrison Et Al; International Business; Oxford
7. Daneils Et Al; International Business; Pearson
8. Hodgetts And Luthans; International Management; Mcgraw-Hill
9. Sundaram & Balck, International Business Environment, Prentice Hall Of India

M4 RURAL AND AGRICULTURAL MARKETING

Objectives:

The course has been designed keeping in mind that the rural Indian market is one of the fastest growing markets in the world. Most of the corporate dealing with both FMCG and durables are already geared up to meet the demands being emerged from rural market The subject has covered to give insights in to the various characteristics, opportunities and problems in marketing the products or services in rural India.

Module 1 OVERVIEW OF RURAL MARKETS AND RURAL MARKETING 8 hrs

Rural economy — size and nature, Rural marketing — definition and scope, Characteristics of Rural markets Taxonomy of Rural markets, Changing patterns, Attractiveness of Rural markets, problems and constraints in rural marketing

Module 2 THE RURAL CONSUMER 10 hrs

Classification of Rural consumers, classification and characteristics of rural consumers, Rural consumer behavior — decision process, brand loyalty, Innovation Adoption, Factors influencing rural consumer behavior, consumer buying process — opinion leadership process — rural shopping habits, growing consumerism - Concepts and process of Rural market Segmentation — bases, Targeting, Positioning

Module 4 STRATEGIES FOR INDIAN RURAL MARKETING 20 hrs

Product Strategy — Scope and significance, Product mix decisions, Product personality, Rural Branding, Product Life Cycle, Rural Pricing — Pricing in Rural Markets, Objectives, policies and Strategies, Rural Distribution—Type of Channels, Distribution Strategies, Promotion — Role of Media in rural market, Conventional Media, Rural communication mix, Media and Creative Strategies, Personal selling — Role and management of rural sales force

Module 5 INTRODUCTION TO AGRICULTURAL MARKETING 10 hrs

Trends in Agricultural Marketing, Agricultural products, Agro processing sector in India — State and characteristics, Food processing sector — Size, scope and future prospects, Defects in Agricultural Marketing

Module 6 AGRICULTURAL MARKETS 12 hrs

Classification of markets, Regulated markets — role and problems, APMC act, Future scenarios, Methods of sales of agricultural products — Hatha, E.'choupal Dara, auction, Agents and Marketing Agencies, Commodity markets and trading,

REFERENCE BOOKS:

1. Krishnamacharyulu And Lalitha Ramakrishnan; Rural Marketing; Pearson Education India
2. Kashyap, Pradeep And Raut, Siddartha; Rural Marketing; Biztantra
3. U.C. Mathur, Rural Marketing, Excel Books
4. Velayudhan, Sanal Kumar; Rural Marketing; Sage
5. Ruchika Ramakrishnan; Rural Marketing; New Century

M5 RETAIL MARKETING MANAGEMENT

Course objective

With the economy in its upswing and consumer purchasing powers and life style is a change, India has become one of the major market for global retail brands and most of them are already in or on their way to be in, This has also triggered many companies also to set up retail chains and thus making retailing as one of the most vibrant growth area. The course has been designed to understand various aspects of retailing management like location, human resource issues, shop management, merchandising and promotion.

Module 1 THE WORLD OF RETAILING

14 hrs

What is retailing, Economic significance of retailing, Opportunities in retailing, The retailing management decision process, Types of retailers, Trends in retail industry, Food retailing, General merchandise retailing, Services retailing, Types of ownership, Non store v/s store based retailing, Electronic retailers, Catalogue and direct mail retailers, Direct selling, Vending machine retailing, Tele vision home shopping, E-Tailing.

Module 2 THE RETAIL CUSTOMER

12 hrs

Generational cohorts, Ethnic diversity, Income, Changing customer demography, Changes in consumer values, Types of buying decisions, Buying process, Factors influencing the decision making process, Market segmentation, Strategic advantage through customer service, Customer evaluation of service quality, GAPs model for improving retail services quality, communicating the service promise

Module 3 RETAIL MARKETING STRATEGIES

10 hrs

What is retail strategy, Target market and retail format, Building a sustainable competitive advantage, International growth opportunities, The strategic retail planning process

Module 4 MERCHANDISING MANAGEMENT

12 hrs

Organizing buying process .by categories, Setting merchandising financial objectives, The assortment planning process, Merchandise budget plans, Open to buy, Allocating merchandise to stores, Analyzing merchandising performance, Branding strategies, International sourcing decisions, Meeting vendors, Establishing and maintaining strategic relationship with vendors

Module 5 STORE LAYOUT, AND RETAIL PROMOTION

12 hrs

Store layout, Space planning, merchandising presentation techniques, Atmospheric, Role of retail communication, Planning retail communication, Retail advertising programme, frequent shopper loyalty programme

REFERENCE BOOKS:

1. Retail Management; Barry Berman And Joel Evans
2. Managing Retailing, Piyush Kumar Sinha, Dwaraka Prasad, Oxford Publications
3. C. Bhattacharjee, Retail Management, Excel Books
4. James Ogden, Denise Ogdden :- IntegratedRetail Management , Biztantra
5. Retailing Management, Levy And Weitz, Mcgraw Hill
6. Retailing Management, Swapna And Pradhan, Mcgraw Hill
7. Retail Management, Gibson

M6 ADVERTISING AND INTEGRATED BRAND MANAGEMENT

Course Objective

The course has been designed to understand the advertising process and advertising industry structure thoroughly. Each component of advertising has been covered to give the student over all importance of advertising in corporate communications. The syllabus also emphasizes on the integrated study of advertising along with brand building and management

Module 1 THE PROCESS: ADVERTISING AND INTEGRATED BRAND PROMOTION IN BUSINESS AND SOCIETY 14 hrs

What is advertising, advertising as a communication process, Advertising as business process, Types of advertising, the economic effects of advertising. **The structure of advertising industry** - The scope and structure of advertising industry, Trends advertising and promotion industry, **The evolution of promoting and advertising brands** - Fundamental influences on evolution of advertising industry, Brand entertainment, **Social, ethical and regulatory aspects of advertising**

Module 2 THE PLANNING: ANALYZING THE ADVERTISING AND INTEGRATED BRAND PROMOTION ENVIRONMENT 14 hrs

The consumer as a decision maker, Modes of consumer decision making, Consumer as a social being, **Market segmentation, positioning and the value proposition** - Identifying the target segments, Segment profiling and targeting, positioning strategies, **Advertising and promotion research** - Developmental advertising and promotion research, Copy research, **Planning advertising and integrated brand promotion**, Advertising plan and its marketing context, Communication objectives v/s sales objectives, Advertisement Budgeting, Role of advertising agency in advertisement planning, Advertisement planning : An international perspective

Module 3 PREPARING THE MESSAGE 12 hrs

Creating brands, in general and across domains, Advertising agencies, creative process and the product, **Message strategy** - Essential message objectives and strategies, **Copy writing** - Copy writing and creative plan, Copy writing for print advertisements, Copy writing for cyber space, Copy writing for broadcast advertisements, The copy approval process, **Art direction and production** - Illustration, design and layout production in print advertising, Art direction and production in television advertising

Module 4 PLACING THE MESSAGE IN CONVENTIONAL AND NEW MEDIA 8 hrs

World of promotional media, Fundamentals of media planning, Media planning process, media strategies, media choices, Contemporary essentials, Media choice and integrated brand promotion, **Media planning** - Strategic planning considerations in media choice

Module 5 INTEGRATED BRAND PROMOTION

12 hrs

Support media, event sponsorship and branded entertainment - Traditional support media, Event sponsorship, Branded entertainment, **Sales promotion and point of purchase advertising** - Definition of sales promotions, Sales promotion directed at consumers, Sales promotion directed towards trade channel and business markets, **Direct marketing** - What is direct marketing, Media applications in direct marketing, **Public relations and corporate advertising** - Public relations, Corporate advertising

REFERENCE BOOKS:

1. Advertising And Sales Promotions, Batra & Kazmi, Excel Books
2. Kelly, Larry D And Jugenheimer, Donald W; Advertising Media Planning – A Brand Management Approach; Prentice Hall India, pearson
3. S.A.Chunawalla – Foundation of Advertising – Theory and Practice – HPH
4. Integrated Advertising, Promotion And Marketing Communication, Clow & Black, PHI
5. Wells, Principles & Practices Of Advertising, PHI
6. Brand Management, H.V. Verma, Excel Books
7. Sharma & Singh, Advertising: Planning And Implementation, PHI

F4 INTERNATIONAL FINANCIAL MANAGEMENT

Course Objective

- *To provide students with a conceptual framework of how financial decisions are undertaken in a multinational company.*
- *To familiarize students with unique economic factors that challenges a financial manager in the international context.*

Module 1: International Financial Environment

10 Sessions

The Finance Function in Global Context, Distinguishing Features of International Finance, International Monetary System, International Financial Flows: Balance of Payments Framework, International Financial System - Markets and Institutions.

Module 2: Foreign Exchange Markets

14 Sessions

Introduction, Structure of Foreign Exchange Market, Mechanics of Currency Trading, Types of Transactions and Settlement Dates, Exchange Rate Quotations and Arbitrage, Exchange Rate Determination and Forecasting, Introduction to Currency Futures, Currency Options, Forwards and Swaps.

Module 3: Forex Risk Management

8 Sessions

Management of Foreign Exchange Risk – Translation Exposure, Transaction Exposure and Economic Exposure, Hedging – Managing operating exposure

Module 4: Financial Management of Multinational Corporations

14 Sessions

Foreign Direct Investment, Cost of Capital and Capital Structure of Multinational Firms, Multinational Capital Budgeting, Multinational Working Capital Management. Control and Performance Evaluation of Multinational Companies.

Module 5: International Financing

10 Sessions

The international Financing Decision, International Equity Financing, Evaluating Borrowing Options, Funding Avenues in Global Capital Markets – Eurocurrency Markets, Depository Receipts.

Module 6 : International Taxation

4 Sessions

Meaning Tax Principles, Double Taxation relief, Bilateral relief, Unilateral relief, Special provisions relating to avoidance of tax & Tax haven subsidiaries & International offshore financial centers.

REFERENCE BOOKS:

1. Apte, P.G., “International Financial Management”, Tata McGraw Hill Publishing Limited.
2. Vij, Madhu, “International Financial Management”, Excel Books.
3. Sharan, Vyuptakesh, “International Financial Management”, Prentice Hall of India.
4. H.R.Machiraju – International Financial Management HPH
5. Janikiraman :- International Financial Management – Biztantra

6. Shapiro, A., "Multinational Financial Management", Prentice Hall of India.
7. Madura, Jeff, "International Financial Management", Thomson Publications.
8. David K. Eieteman, etal, Multinational Business Finance, Pearson Education.

F5 STRATEGIC FINANCIAL MANAGEMENT

Course Objective

The objective of this course is to introduce the student to the tools and concepts needed to deal effectively with the formulation, Implementation and Monitoring of Strategic Financial decisions of the firm.

Module 1: Strategic Financing Decisions

10 Sessions

Meaning and importance of Strategic Financial Management, Scope and Constituents of Strategic Financial Management, Financial Planning, Capital Allocation and Corporate Strategy, Capital Structure and Firm Value, Dividend Policy and Firm value – Stock vis-à-vis Cash Dividends, Strategic Cost Management – Activity Based Costing, Target Costing, Life Cycle Costing.

Module 2: Corporate Valuation

10 Sessions

Meaning and approaches to Corporate Valuation – Adjusted Book Value Approach, Stock and Debt Approach, Comparable Companies Approach, Discounted Cash Flow Approach – Concept of Free Cash Flow to the Firm, Two and Three Stage Valuation Models. Valuation of Physical Assets, Valuation of Intangible Assets – Brand Equity and Human Resources.

Module 3: Value Metrics

15 Sessions

Shareholder Value Creation – Traditional and Modern Approaches – Value Drivers. Approaches to Value Based Management – Marakon Approach, Alcar Approach, Mc Kinsey Approach, EVA Approach, BCG HOLT Approach. Metrics for Measurement of Performance – EPS, ROI, EBIT, EBITDA, RONA, ROCE, TSR, TBR, MVA, CVA, CFROI – Concept of Economic Depreciation. Executive Compensation and Value Creation. Employee Stock Option Plan. Balanced Scorecard.

Module 4: Corporate Restructuring

5 Sessions

Meaning and forms of corporate Restructuring – Spin off, Split off, Split up, Leveraged Buyout, Divestiture and other forms of corporate Restructuring .

Module 5 : Mergers & Acquisitions

10 Sessions

Corporate Restructuring – Meaning and Forms. Mergers and acquisitions – Definition, Types, Motives for Merger or Acquisition, Steps involved in Merger, Mechanics of Merger – Legal, Accounting and Tax, Valuation for Mergers and Acquisitions, Financing of Merger and settlement – Exchange Ratio, Stock Vs. Cash Payments, Takeovers, Defensive Tactics of Takeovers and disinvestment of PSU's.

Module 6: Challenges in Strategic Financial Management

10 Sessions

Financial Management in Knowledge Intensive Companies and Public Sector Companies, Financial Management in Sick Units, Financial Innovations and Financial Engineering – Overview, Scope, Tools of Financial Engineering, Financial Engineering versus Financial Analysis.

REFERENCE BOOKS:

1. Chandra, Prasanna, "Financial Management", Tata McGraw Hill Publishing Limited.
2. Grinblatt, Mark and Titman, Sheridan, "Financial Markets and Corporate Strategy", Tata McGraw Hill.
3. Sudhindra Bhat "Financial Management" Excel Books
4. R.M.Srivastava :- Financial Management and Policy – HPH
5. Jakhotiya, G.P., "Strategic Financial Management", Vikas Publishing House Private Limited.
6. Vedpuriswar, A.V, "Strategic Financial Management – Achieving Sustainable Competitive Advantage", Vision Books.
7. Allen; Introduction To Strategic Financial Management
8. Swamy Parthasastri : - Corporate Governance ,Biztantra
9. Grundy & Scholes; Exploring Strategic Financial Management; Prentice Hall
10. Weston, Mergers, Restructuring & Corporate Control, PHI

F6 PROJECTS - ANALYSIS AND IMPLEMENTATION

Course Objective

- *To make the student understand the basic concept of project finance*
- *Provide students with an analytical and conceptual framework to evaluate capital investment proposals.*
- *To familiarize students with the various management techniques in implementing the project to its successful completion.*

CHAPTER : 1 PROJECT PLANNING

10 Sessions

Concept of a project, categories of projects, Project life cycle phases, Generation and screening of project ideas, Project appraisal techniques, demand analysis, Technical analysis, Economic analysis, formulation of detailed project reports.

CHAPTER 2 : PROJECT ESTIMATION AND SELECTION

10 Sessions

Preparation of cost estimates, finalisation of project implementation schedule, Investment criteria, PBP, ARR, NPV, PI, IRR, MIRR, cost of capital, capital rationing. Fixing the zero-date

CHAPTER 3: RISK MANAGEMENT IN CAPITAL BUDGETING:

15 Sessions

Sources, Measures and perspectives of risk, portfolio related risk measures, Mean-variable, portfolio construction, capital Asset pricing Model, special techniques of risk analysis – sensitivity analysis, scenario analysis, break even analysis, Hill Model, simulation analysis, standard deviation in measurement of risk, co-efficient variation optimistic –permissives estimates, certainly Equivalent Approach, Decision Tree analysis Managing risk, project selection under risk.

CHAPTER 4: PROJECT FINANCING

10 Sessions

Capital structure, sources of finance Margin money, promoters contribution, consortium lending and local syndication by banks, financing through markets and public issues, Term loans and debentures, Raising venture capital.

CHAPTER 5: PROJECT IMPLEMENTATION AND CONTROL

10 Sessions

Organizing human resources and contracting, organizing systems and procedure for project implementation, working of systems, Design of systems, project work system design, work breakdown structure, project execution plan, project control system, project diary, project control –scope/progress control, performance control, schedule control and cost control.

CHAPTER 6: PROJECT REVIEW & ADMINISTRATIVE ASPECTS 5 SESSIONS

Control of In-Program projects, post completion audits, Abandonment Analysis Administrative aspects of Capital Budgeting, Agency Problem, Evaluating Capital Budgeting systems of an organization.

REFERENCE BOOKS:

1. Prasanna Chandra, Projects Planning Analysis selection, financing, Implementation, Tata McGraw Hill
2. S.Choudhury – Project Management Tata McGraw Hill publishing Co., Ltd.,
3. Vasanth Desai, Project Management – HPH
4. Ravi.M.Kishore – Financial Management – Taxman Publications
5. Gopalan, Project Management, John Wiley

H5 - KNOWLEDGE MANAGEMENT AND LEARNING ORGANIZATION

MODULE 1 THE PARADIGM OF LEARNING ORGANIZATIONS

The paradigm of learning organizations, lessons in learning and creativity, learning organizations – paradigm of strategy and management, life long creates trails of life long creators, model of life long creativity, mastering creative problems, solving, models of creative problems solving, model of creative intelligence, convergent thinking, acquiring a creative persona, techniques of creative problems solving and creativity.

MODULE 2 TECHNIQUES OF CREATIVE PROBLEM SOLVING

Techniques of creativity, problem decomposition, information search, breaking stereotyped response, unblocking, mutual stimulation, imaging, fusioning, ideating, extermisation and dialectical, brainstorming, the when of creativity techniques – attributing changing and morphological analysis.

MODULE 3 BUILDING A LEARNING ORGANIZATION

What is learning organizations – nature of learning enterprises, skills needed by learning organizations, three phases of learning, learning implies unlearning, adaptive and generative learning, building a learning organization, knowledge intensive organization.

MODULE 4: ISSUES, THEMES AND THE ROLE OF INFORMATION TECHNOLOGY ON LEARNING ORGANIZATIONS.

Core issues and themes is building learning enterprises, vision and strategy, nature of the organization structure, an infrastructure for knowledge management, role of information technology in knowledge management, information technology and knowledge approaches.

MODULE 5 TECHNIQUES METHODS AND APPROACHES TO LEARNING ORGANIZATIONS.

Learning companies fostering knowledge and learning, a brief overview of some techniques, methods and approaches, learning organizations and management of change – activities and case studies.

MODULE 6, KNOWLEDGE MANAGEMENT SYSTEM

Introduction to knowledge management, knowledge management and knowledge management systems, drivers of knowledge, tacit and explicit knowledge, knowledge management is virtual organizations, implementing knowledge management solutions, knowledge management system on learning organization, knowledge management systems – issues, challenges and benefits.

H6 - INTERNATIONAL HUMAN RESOURCES MANAGEMENT

MODULE 1. INTERNATIONAL H.R.M

Difference between Domestic HRM and IHRM, Managing International HR activities- HR planning, Recruitment & Selection, Training & Development, Performance management, Remuneration, Repatriation & employee relations. Socio-Political Economic System – U.S, U.K, Japan and India – a comparative analysis.

MODULE 2. INTERNATIONAL RECRUITMENT AND SELECTION

Approaches – Ethnocentric, Polycentric, Geocentric, Regiocentric. Selection: Factors in Expatriate selection – Technical ability, Cross-cultural suitability, Family requirements, MNE requirements.

MODULE 3. HR INFORMATION SYSTEM

Meaning, Need, Advantages and uses. Designing of HRIS, Computerized HRIS, Limitation of HRIS. Computerized skill inventories, Global Talent Search.

MODULE 4. MANAGING HR IN VIRTUAL ORGANISATION

Meaning, Types of virtual organization, Difference between traditional & virtual organizations, Advantages and disadvantages of virtual organizations, Features of virtual organization, Managing HR in virtual organization.

MODULE 5 GLOBALISATION & HRM

Impact of globalization on Employment, HR Development, wage & benefits, Trade unions, Collective bargaining, Participative management & Quality circles. Ethical issues in HR, Changing environment of HRM - Internal and External factors. Internal factors – Human Resource of Country, changing demands of employers, employees organization. External factors – Change in Technology, Legal and Government, Customer Social factors, Economic and Political factors and talent management.

MODULE 6 TQM & HR MANAGEMENT

Principles of TQM, Methods of Total Quality Management, HRM & TQM, HR strategy to TQM.

REFERENCE

1. N Sengupta & Mousumi S Bhattacharya – International Human Resource Management – Excel Books
2. S.Jayashree – What Every MBA Should Know About HRM - HPH

S4 : E – COMMERCE TECHNOLOGY AND MANAGEMENT

MODULE 1: FUNDAMENTAL OF E-COMMERCE

Introduction to E-Commerce, Types of E-Commerce: B2B, B2C, C2C, G2G, G2E, G2C, E-Business Models & Markets, Techniques and Tools, E-Commerce Providers and Vendors.

MODULE 2: BUSINESS APPLICATIONS IN E-COMMERCE

Retailing in E-commerce – market research on internet customers – e-commerce for service sector – Advertising in e-commerce – B2B ecommerce. Supply Chain Management: E – logistics, Supply Chain Portal, Supply Chain Planning Tools (SCP Tools), Supply Chain Execution (SCE), SCE - Framework, Internet's effect on Supply Chain Power and E – Marketing.

MODULE 3: E-COMMERCE INFRASTRUCTURE

Intranet, Internet & Extranet – Structure, Architecture, Applications & Business Models.

MODULE 4: E-COMMERCE PAYMENTS AND SECURITY

E-Payments and Protocols-Security schemes against internet fraud. Principles of e-fund transfer, credit and debit card usage, E – Cheque, E – Cash, E – Payment Threats & Protections.

MODULE 5: LEGAL AND PRIVACY ISSUES IN E-COMMERCE

E-Commerce Issues & Opportunities in Implementation and Role of Government - Commercial Issues, Infrastructure Issues, Social and cultural issues, Role of Govt. and Policy Recommendations and Emerging trends in E- Commerce.

TEXT BOOKS

1. Efraim Turban et al., 'Electronic Commerce – A managerial perspective', Pearson Education Asia, 2002.
2. Kalakota et al, 'Frontiers of Electronic Commerce', Addison Wesley, 2001.
3. Greenstein Firsman, 'Electronic Commerce', Tata McGraw Hill, 1999.
4. C.S.V. Murthy – E.Commerce-HPH
5. Nabil Adam et al, 'Electronic Commerce – Technical, Business and Legal Issues'. Prentice Hall. 1998.
6. C.S.Rayudu – E Commerce, E Business-HPH

S5 :SYSTEM ANALYSIS & DESIGN

Objectives: The objective of the course is to familiarize the students with the various Concepts of system analysis, design and planning.

MODULE I

System Concepts and Information Systems Environment, System Development life Cycle, Role of System Analyst.

MODULE II

System Planning and initial Investigation, Information Gathering, Tools of Structured: DFD, DD, Decision Tree, Decision Table, Structured English, Pseudo code, Analysis, Feasibility Study, Cost/Benefit Analysis.

Module III

Process and Stages of System Design, Input / Output and Forms Design, File Organisation and Database Design.

Module IV

System Testing & Quality Assurance, Implementation and Software Maintenance, Hardware and Software Selection and Computer Contract, Project Scheduling and Software, Security, Disaster/ Recovery, and Ethics in System Development.

Text Books:

1. Elias M Awad, - System Analysis & Design, Galgotia Publication
2. Hopper, George, Valacich, Panigrahi, - Modern System Analysis and Design, Pearson Education.
1. James A Senn, - Analysis & Design of Information Systems, Tata McGraw Hill
2. Rajaraman, Analysis & Design of Information Systems, PHI.
3. Whitten, Bentley, Dittman, - System Analysis & Design Methods, TMH

S6 :ENTERPRISE RESOURCE PLANNING AND BUSINESS PROCESS RE-ENGINEERING

Objectives: This paper will orient students to understand that business processes can be integrated in a seamless chain.

UNIT – I

Introduction to Process Concept, Primary value chain concept, Process Activities, product complexities, Reengineering current situation, necessary to re-invent organization. Continuing the mass production concept, variation on the Greenfield approach. The impact of accounting system on decision seeking outside help, BPR success determination, Industry consolidation. The value of BPR; BPR experiences.

UNIT – II

Analyze process, establish process matrix, process matrix vary by process type. Applying analysis tool and methods, accounting of process, determining the cost of quality, process analysis sample, first, further and by example. Activity analysis, span of control, process representation, consistent semantic, semantic network process representation and modeling culture change.

UNIT – III

ERP - Introduction, integrated management information, seamless integration, supply chain management, resource management, scope and benefits, evolution, modern enterprise, business engineering and ERP.

UNIT – IV

Business modeling - Building, extended ERP, business modeling in practice, ERP implementation, role of consultants, vendors and users, customization, precautions, guidelines. Post implementation options and methodology.

UNIT – V

ERP - Competitive advantage, strategy, marketing of ERP, ERP Domain, MFGIPRO; IFSI Avalon, Baan IV; SAP, SAP R/3, Application; ERP III.

REFERENCE BOOKS:

1. Ravi Anupindi, Suni Chopra, "Managing Business Process Flows", Pearson Education
2. Garg, V. K. and Veket Krishna N. K., "ERP Concepts and Practice", PHI Publication.
3. D.S. Linthicum, "Enterprise Application Integration", Pearson Education
4. Altekar, Enterprise Resource Planning, PHI
5. ERP – Alexis Leon, Leon Publishers
6. Supply Chain Management based on SAP Systems, G. Knolmayer, P. Mertens and A. Zeir, Springer International Edition.
7. Introduction to SAP, an Overview of SD, MM, PP,FI/CO Modules of SAP
8. ERP, Vinod Kumar Garg and N.K. Venkitakrishnan, PHI

**MASTER OF BUSINESS ADMINISTRATION
UNDER
CHOICE BASED CREDIT SYSTEM (CBCS)**

(2014 - 2015 ONWARDS)

COURSE CONTENT OF FIRST SEMESTER

CANARA BANK SCHOOL OF MANAGEMENT STUDIES,

BANGALORE UNIVERSITY, BANGALORE

COURSE MATRIX

FIRST SEMESTER

PAPER	SUBJECT
1.1	Economics for Managers
1.2	Organizational Behavior
1.3	Accounting for Managers
1.4	Statistics for Management
1.5	Marketing for Customer Value
1.6	Business and Industry
1.7	Communication Skills

1.1 ECONOMICS FOR MANAGERS

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

This course is designed to impart knowledge of the concepts and principles of Economics, which govern the functioning of a firm/organization under different market conditions. It further aims at enhancing the understanding capabilities of students about macro-economic principles and decision making by business and government.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To make the students aware of the various economic theories and principles
- To equip them with the required tools and techniques for improving their decision-making skills.

OUTCOMES

- The student must have micro and macro-economic perspective to understand the under pinning of management.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE: INTRODUCTION TO MANAGERIAL ECONOMICS

8 HOURS

Introduction to Economics, Kinds of Economic Decisions, Significance and applicability of Managerial Economics in decision making, Role and responsibilities of Managerial Economics, Economic principles relevant to managerial decision making, Opportunity

cost, Production possibility curve, Concept of increments and Margin, Discounting principle, Theory of firm.

2

MODULE TWO: DEMAND ANALYSIS AND CONSUMER BEHAVIOR

10 HOURS

Demand theory and analysis, Elasticity of Demand and its role in Managerial decision making, Demand forecasting, Techniques of Demand forecasting, Consumers Equilibrium, Cardinal utility approach, Indifference curve approach, Theory of revealed preference, Consumer surplus

3

MODULE THREE: THEORY OF PRODUCTION AND ANALYSIS OF COST

10 HOURS

Laws of variable proportions and Return to scale, Economies of scale, Isoquants and Isocost, Optimum combination of inputs, Elasticity of substitutions; Cost concepts: Kind of costs, Short run and long run cost functions, Interrelationship of cost, Cost reduction and cost control.

4

MODULE FOUR: DETERMINATION OF PRICE AND OUTPUT

10 HOURS

Concept of Market equilibrium and Revenue curves, Characteristics of different market structures, Price determination and firms equilibrium under perfect competition, monopolistic competition, oligopoly and monopoly, Price discrimination, International price discrimination and dumping, Pricing methods

5

MODULE FIVE: FACTOR MARKET AND FACTOR PRICING

8 HOURS

Theories of factor pricing: wages and rent, Theories of interest and investment decisions, Profit and profit functions.

6

MODULE SIX: MACROECONOMIC ANALYSIS AND POLICY

10 HOURS

National Income: Concept and measurement, Circular flow of economic activities, Keynesian analysis: Keynesian theory of employment, consumption function, investment function, multiplier, relevance of Keynesian economics in underdeveloped countries, Business cycle, Money supply and Inflation.

5. PEDAGOGY

Case studies to testify the complexity of economic theory as applicable to real life and to provide enhanced insight to comprehend the economics concepts illustrated in each chapter.

6. TEACHING AND LEARNING RESOURCES

- a) www.bibilomania.com/nonfiction/smith/wealth/index.html
- b) www.planningcommission.gov.in/
- c) www.wsj.com
- d) www.netec.wustl.edu/WebEc/WebEc.html
- e) www.nber.org
- f) www.economist.com
- g) www.slate.com
- h) Economic and Political weekly, **Mumbai, Economic & Political Weekly Research Foundation**
- i) Indian Economic review, Delhi school of Economics
- j) **Indian Economic Journal, Indian Economic Association.**

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Dwivedi D.N, "Managerial Economics", Vikas Publication
2. PindyckRubinfeld& Mehta, "Micro Economics", Pearson

REFERENCES

1. RitikaSinha : Managerial Economics, SBPD Publishing House
2. Damodaran Suma: Managerial Economics, Oxford University Press
3. Petersen Lewis & Jain: Managerial Economics, Pearson
4. Paul A Samuelson and William D Nordhaus : Economics, McGraw Hill
5. Geethika, Ghosh&Choudary : Managerial Economics, McGraw Hill

1.2 ORGANIZATIONAL BEHAVIOUR

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Management deals with individuals in the organizational context. People have diversified personalities, attitudes, perceptions and behaviours. After their entry, they cannot remain as individuals. But, organizations have their own culture, leadership and conflicts. It is this subject which blends incompatible ones into a whole. Understanding the individual and organizational behaviours would go a long way in bringing about this perspective.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To enhance the understanding of the dynamics of interactions between individual and the organization.
- To facilitate a clear perspective to diagnose and effectively handle human behavior issues in Organizations.
- To develop greater insight into their own behavior in interpersonal and group, team, situations.

OUTCOMES

- The degree to which one can make an individual to think beyond self is the real outcome of the course.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE

6 HOURS

The meaning of OB, Why study organizational behaviour, Organizationalbehaviour models, Benefits of studying OB, Inter- disciplinary subject.

2

MODULE TWO

12 HOURS

Personality, Shaping of personality, Determinants of personality, Types of personalities, Personality and work,Self-concept, self-esteem and self-efficiency, Perception, perceptual process, Managing the perceptual process;
Learning process, Reward systems and behavioral management, Theoretical process of learning, Principles of learning, Reward and punishment, Organizational reward system
Attitude formation, Functions, Change of attitude, Types of attitudes, Values

3

MODULE THREE

19 HOURS

Management of motivation: Motivation in work settings, Managerial issues and challenges. Theories, Maslow's need theory, McGregor theory XY, Herzberg's Motivation Hygiene theory,Vroom's Valence and Instrumentality
Team building and group dynamics,Working teams and team effectiveness, Intra team dynamics, Influence of the group on individual, Group decision making, Inter group relations, Collaboration and conflict, Conflict management
Dynamics of managerial leadership, What is leadership, Transition in leadership theories, Leadership theories, Power and politics, Leadership and managerial change

4

MODULE FOUR

8 HOURS

Conflict, Intra,interpersonal, intergroup conflicts and their resolution, Transactional analysis, Johari window

5

MODULE FIVE

5 HOURS

Culture, Types of culture in the organization, Culture, Discipline, Organizational effectiveness

6

MODULE SIX

6 HOURS

Change and organizational development, Meaning of change, Stages of change, Why do people resist change, Overcoming resistance to change, Meaning of OD and methods of OD

5. PEDAGOGY

The course is expected to use a combination of approaches such as lecture, case discussion, role plays, experiences, exercises, instruments, videos and films

6. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Fred Luthans, "Organizational Behaviour", 12th Edition, McGraw Hill International Edition
2. Stephen P. Robbins, "Organizational Behaviour", 12th Edition, Prentice Hall
3. Aswathappa K, "Organizational Behaviour (Text, Cases and Games)", Himalaya Publication

REFERENCES

1. Gregory Moorhead & Ricky W. Griffin, "Organizational Behaviour, Managing people and organizations", 3rd edition, Jaico
2. Jerald Greenberg, "Behavior in Organizations", Tenth edition, Prentice Hall
3. Robert Krietner & Angelo Kinicki, "Organizational Behaviour", Eighth edition, Tata McGraw Hill
4. John M Ivancevich, Robert Konopaske, Michael T Matteson, "Organizational Behaviour and Management", 7th edition, Tata McGraw Hill
5. PG Aquinas, "Organizational Behaviour: concepts, realities, application and challenges", First edition, Excel
6. Jason A. Colquitt, Jeffery A. LePine & Michael J Wesson, "Organizational Behavior", McGraw Hill
7. Udai Pareek, "Organizational Behavior", Oxford University Press

1.3 ACCOUNTING FOR MANAGERS

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2 PERSPECTIVE OF THE COURSE

Decision making is the core function of a manager. A potential manager must be exposed to the skill of sourcing information and make timely and apt decisions. One document that provides ample information for many decisions is 'Annual Report'. The Annual report, a report prepared by the Management of the company to its owners (the shareholders) informing them about the performance of the company over the preceding financial year, the reasons and analysis for performance, gives adequate information for both insiders of the company and outside stakeholders. However, the big challenge is how to read and understand the report and how to elicit information for making decisions. This course captures the fundamental aspects of financial statements, its analysis and interpretation and techniques for managing cost.

3 COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To enable the students gain knowledge about concepts, principles and techniques of accounting
- To enable the students use financial and cost data in planning, decision making and control

OUTCOMES

- Financial statements – concepts, conventions and standards that influence preparation of financial statements
- Identifying problem areas in business through various techniques of financial statement analysis
- Managing cost – that is, controlling and reducing cost
- Recent developments in Accounting and its relevance

4 COURSE CONTENT AND STRUCTURE

1

MODULE ONE: CONCEPTUAL BASIS FOR ACCOUNTS

6 HOURS

Introduction, Meaning and definition, understanding forms of Business Organizations, Basic framework of Accounting, objectives and purpose of Accounting information, users of Accounting information, Branches of Accounting, Basic terminology, Fraud and Ethical Issues in accounting.

2

MODULE TWO: ORIENTATION TO FINANCIAL STATEMENTS

8 HOURS

Income statement, Balance sheet and notes to accounts – Terms and Jargons in financial statements, Accounting concepts and conventions and GAAP.

3

MODULE THREE: MEASURING AND REPORTING ASSETS, LIABILITIES AND EQUITY

8 HOURS

Current Assets, Inventory valuation, Cost formulas (AS-2) Fixed Assets Cost of Acquisition (AS-10), Depreciation methods (AS-6), Liabilities and its classification.

4

MODULEFOUR: ANALYZING AND INTERPRETING FINANCIAL STATEMENTS

14 HOURS

Objectives of financial statements analysis, sources of information, standards of comparison, Quality of earnings, window dressing, Beating window dressing, Techniques of financial statement analysis, Analyzing financial statements using Ratio Analysis and Du-Pont Model and Cash flow statement, understanding annual reports and earnings releases.

5

MODULE FIVE: ORIENTATION TO COST ACCOUNTING

12 HOURS

Meaning of Costs, Classification of Costs- mainly based on elements, functions and behavior. Cost Management – Techniques for controlling and reducing cost – Marginal Costing, Cost-volume-profit analysis, Budgetary Control.

6

MODULE SIX: CONTEMPORARY ISSUES IN ACCOUNTING

8 HOURS

IFRS, Human Resource Accounting, Forensic Accounting, Environmental Reporting, Corporate Social Reporting, Target Costing, Life Cycle Costing.

5 PEDAGOGY

- a) Lectures.
- b) Demonstrations.
- c) Practical Exercises – Individual and Group
- d) Case Studies.

6 TEACHING AND LEARNING RESOURCES

- a. www.icai.org/students/Bos-knowledge-portal.
- b. www.icmai.in
- c. Journal of Accounting
- d. Indian Journal of Accounting
- e. The Chartered Accountant.

7 RECOMMENDED READINGS

ESSENTIAL READINGS

1. Narayanaswamy R, Financial Accounting- A managerial perspective, PHI Learning Pvt Ltd 2014.
2. Gupta, Ambrish, “Financial Accounting for Management – An Analytical Perspective”; Pearson Publications
3. Ramachandran and Kakani- Financial Accounting for Management, Tata McGraw Hill.
4. Vijaykumar M P., “First Lessons in Financial Reporting”, Snow White Publications
5. Chandra, Prasanna, “Finance Sense – Finance for Non-finance Executives”, Tata McGraw Hill
6. Agarwal, V. Rakesh, “Systematic Approach to Cost Accounting”, Bharat Publications

REFERENCES

1. Tulsian and Tulsian, “ Financial Reporting”, S.Chand
2. Kishore, M. Ravi, “Advanced Cost Accounting and Cost systems”, Taxmann Publications
3. Ramachandran, and Kakani, “How to Analyze Financial Statements”, Tata McGraw Hill
4. Palat, Raghu, “How to Read Annual Reports and Balance Sheets”, JAICO Publishing House
5. Dash A.P., “Financial Wisdom – Finance for Non-Finance Executives”, Biztantra

1.4 STATISTICS FOR MANAGEMENT

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Statistics education research over the last decade has pointed out the development of statistical literacy and interpretive skills as a universally recognized goal of instruction (Rumsey, 2002; delMas, 2002). Chance (1997) argued that as instructional goals in statistics courses change emphasizing statistical literacy skills over procedural calculations, there is need for instructors to accompany these new goals with more authentic assessment techniques to evaluate progress towards these goals. This course is designed to adopt Gal’s conception of adult statistical literacy as “the ability to interpret, critically evaluate, and communicate about statistical information and messages” (Gal, 2002).

Gal’s statistical literacy model comprises two broad interrelated components; namely: (1) knowledge component which consists of five cognitive elements: literacy skills, statistical knowledge, mathematical knowledge, context knowledge, and critical questions; and (2) dispositional component which consists of three related but distinct concepts; namely: critical stance, beliefs and attitudes.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To elevate students’ awareness of data in everyday life and prepare them for a career in today’s age of information.
- To impart to students, an assured level of competence, or understanding, of the basic ideas, terms, and language of statistics.
- To develop statistical literacy skills in students in order to comprehend and practice statistical ideas at many different levels.

- To promote the practice of the scientific method in our students: the ability to identify questions, collect evidence (data), discover and apply tools to interpret the data, and communicate and exchange results.

OUTCOMES

- At the end of this course, students will achieve statistical literacy and will be able to find ways to move beyond the-what of statistics to the how and why of statistics.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE

8 HOURS

Role of statistics: Applications of statistics in managerial decision-making; Phases of a statistical study, Presentation of data to convey meaning - Tables, Graphs and Frequency Distribution

Measures of central tendency: Mean, Median and Mode and their implications, Measures of Dispersion: Range, Mean deviation, Standard deviation, Coefficient of Variation, Skewness, Kurtosis

2

MODULE TWO

12 HOURS

Time series analysis: Concept, Additive and Multiplicative models, Components of time series. Trend analysis: Least Square method, Linear and Non- Linear equations, Exponential shooting method, Applications in business decision-making.

Index Numbers: Meaning, Types of index numbers, Uses of index numbers, Construction of Price, Quantity and Volume indices, Fixed base and Chain base methods

Correlation: Meaning and types of correlation, Karl Pearson and Spearman rank correlation.

Regression: Meaning, Regression equations and their application

3

MODULE THREE

10 HOURS

Probability: Concept of probability and its uses in business decision-making; Addition and multiplication theorems; Bayes' Theorem and its applications.

Probability Theoretical Distributions: Concept and application of Binomial; Poisson and Normal distributions

4

MODULE FOUR

8 HOURS

Introduction to sampling distributions, Sampling distribution of mean and proportion, Sampling techniques

Estimation: Point and Interval estimates for population parameters of large sample and small samples, Determining the sample size.

5

MODULE FIVE

8 HOURS

Estimation Theory and Hypothesis Testing: Sampling theory; Formulation of Hypotheses; Application of Z-test, t-test, F-test and Chi-Square test

Techniques of association of Attributes & Testing

ANOVA one and two way, Design of experiments

6

MODULE SIX

10 HOURS

Chi-square test for single sample standard deviation, Chi-square tests for independence of attributes and goodness of fit, Sign test for paired data, Rank sum test

Kolmogorov-Smirnov, Test for goodness of fit, comparing two populations

Mann – Whitney U test and Kruskal Wallis test, One sample run test, rank correlation

Decision Theory – Decision under certainty, Decision making under risk (EMV criteria) and Decision making under uncertainty.

5. PEDAGOGY

Irrespective of where an individual is involved in the chain of statistical information, there is a necessity for a rudimentary understanding of the concepts and language, a level of reasoning- the abilities to question, compare, and explain and a level of statistical thinking- applying the ideas to new problems and identifying new questions. Towards this end, case studies will be extracted from Newspapers and Magazines regarding daily life and explored. These case studies will be in addition to the actual teaching hours expended in imparting statistical methods.

6. TEACHING AND LEARNING RESOURCES

- a) www.socr.ucla.edu/
- b) www.ats.ucla.edu/stat/seminars/statteach/sites.htm
- c) www.statsci.org/teaching.html
- d) www.onlinestatbook.com/2/chi_square/Chi_Square.html
- e) Any Online Newspapers, Journals and Magazines.

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. T N Srivastava, Shailaja Rego, Statistics for Management, Tata McGrawhill, Latest edition.
2. S P Gupta, Statistical Methods, Sultan Chand & Sons, Latest edn.
3. Glynn Davis and Branko Pecar, Business Statistics using Excel. Oxford University press, 2010
4. J. K. Sharma, Fundamentals of Business Statistics, 2nd Edition, Vikas Publication, 2014.

REFERENCE

1. SC Gupta, Fundamentals of Statistics, Himalaya Publications.2013.
2. N.D. Vohra, Business Statistics, Tata McGrawHill, 2013

1.5 MARKETING FOR CUSTOMER VALUE

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

This paper introduces students to the crucial role that marketing plays in business development. Marketing is an important function that brings companies and clients closer together. It is the application, tracking and review of a Company's marketing resources and activities. Establishing a marketing orientated organization with the emphasis on the customer is a core component in an organization's success. Students will obtain good knowledge and understanding of the key principles of marketing and will be able to relate what they learn in this paper to situations in their workplace.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To elevate students' awareness of an organization's resources required for Marketing in today's age of information
- To develop marketing skills
- To understand the requirements of a career in marketing

OUTCOMES

- The scope of a business' marketing management depends on the size of the business and the industry in which the business operates. Students will be able to use a company's resources to increase its customer base, improve customer opinions of the company's products and services, and increase the company's perceived value.

4. COURSE CONTENT AND STRUCTURE

1	MODULE ONE: ESSENTIALS OF MARKETING	8 HOURS
	Importance of marketing, Core marketing concepts, Company orientation towards market place, Marketing management tasks, Marketing strategies and plans, SWOT analysis, Marketing environment, Competitive dynamics	
2	MODULE TWO: CREATING/CHOOSING CUSTOMER VALUE	8 HOURS
	Customer value, satisfaction and loyalty, Customer relationships, Life time value of customers, Customer databases, Buying decision process, Market segments and targets, Product life cycle strategies, Brand positioning, Brand equity	
3	MODULE THREE: DESIGNING CUSTOMER VALUE	10 HOURS
	Characteristics and classifications of products, Product and service differentiation, Product mix, hierarchy, line etc, Nature and characteristics of services, Excellence in services Pricing strategies: Pricing environment, Steps in price setting, Methods of pricing, Initiating and responding to price changes.	
4	MODULE FOUR: DELIVERING CUSTOMER VALUE	10 HOURS
	Marketing channels and value networks, Decisions on design and management of channels, Channel conflict and competition, Channel integration, E-Commerce marketing practices, New retail environment, Market logistics, Supply chain management	
5	MODULE FIVE: COMMUNICATING CUSTOMER VALUE	12 HOURS
	Role of Integrated marketing communications, Steps in designing effective communications, Communication mix, Managing mass communications like advertizing,	

sales promotion, events and experiences, public relations etc; Managing personal communications like direct marketing, interactive marketing, Email, SMS, Social media, sales force etc

6

MODULE SIX: SUSTAINING GROWTH AND CUSTOMER VALUE

8 HOURS

New product development strategy, Steps in new product development

Managing holistic marketing organization: Internal marketing, CSR, Cause related and socially responsible marketing, Marketing control

5. PEDAGOGY

Irrespective of where an individual is involved in the course of business, there is a necessity for a rudimentary comprehension of the concepts and language of marketing. Students need to understand marketing situations and strategize towards these states. Towards this end, case studies will be extracted from Newspapers and Magazines regarding daily life and explored. These case studies will be in addition to the actual teaching hours expended in imparting Marketing Management theory.

6. TEACHING AND LEARNING RESOURCES

- a. www.mplans.com
- b. www.marketingtoday.com
- c. www.indianjournalofmarketing.com
- d. www.indianjournalofmanagement.com
- e. Journal of Marketing
- f. Marketing Education Review
- g. Journal of Consumer Marketing
- h. Journal of Marketing Education
- i. Journal of the Academy of Marketing Science

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Philip Kotler, Kevin Lane Keller, Abraham Koshy and MithileshwarJha, Marketing Management. Pearson Education, Latest edition.
2. Etzel, Walker, Stanton & Pandit, Marketing, Tata McGrawhill, Latest edition.

REFERENCES

1. Ramaswamy and Namakumari, “ Marketing Management, Global Perspective, Indian context”, McGraw Hill, Fifth edition, 2013
2. Paul Baines, Chris Hill and Kelly Page, Marketing Management, Adapted by PiyushSinha, Asian Edition, Oxford University Press.
3. Lambhair Sharma, McDaniel, Marketing Management. Cengage Learning Pvt. Ltd., 2012.
4. William D Perreault and Jerome McCarthy, “ Basic Marketing: A Global Managerial Approach”, Tata McGraw Hill, 2006
5. Adrian Palmer, Introduction to Marketing, Oxford

1.6 BUSINESS AND INDUSTRY

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE

Students are pursuing the management courses in the context of the world of business and industry. Such perspective during the course itself gives them an edge over others who grasp subsequent to their becoming insiders of organizations. Hence, this understanding must cover not only the Indian economy but Indian business/industry also. An overview of the context in which one is operating is essential. An attempt is made to give a feel and insight into the world of business and industry in India in particular and Indian economy in general.

3. OBJECTIVES AND OUTCOMES

This course aims at

- To enumerate the fundamentals of Indian economy, business and industry
- To study the present status of Business & Industry in India
- To get a glimpse of future challenges

The outcome of this course is the level of understanding of the dynamics of business and industry by students.

4. COURSE CONTENT AND STRUCTURE

The course has been divided into six modules to cover the several dimensions of Business and Industry and various aspects of environment in which they operate.

1

MODULE ONE: AN OVERVIEW OF INDIAN ECONOMY

6 HOURS

The structure of Indian Economy, Pillars of Economic Development, Role and contribution of Agriculture, Industry and Services; Performance, recent trends and future scenario of these sectors in Indian Economy. *(Relevant and latest data have to be used extensively wherever necessary)*

2

MODULE TWO: ESSENTIALS OF BUSINESS & INDUSTRY

10 HOURS

Meaning, nature, role and importance of business and industry, Functions and processes, Internal and external influences, Different forms of enterprises, Interaction and linkages with Government and civil society, Macro environment.

Types of Productive Systems, The Manorial or Feudal system, The Guild system, Characteristics of The domestic/putting-out/outsourcing systems, and the Factory system, Causes and Consequences of industrialization, The IT system of industrialisation-services, enabled services, linkage with Manufacturing & Agriculture

3

MODULE THREE: EVOLUTION OF BUSINESS & INDUSTRY IN INDIA

8 HOURS

Structure of Indian society, Glimpse of economic activity in ancient times, British Raj, Swadeshi movement, Post-Independence scenario, Licence-Permit Raj, LPG era, Economic reforms since 1991, Entrepreneurship Culture in India, Industrial Policy, 2014 & Changing economic policy era.

4

MODULE FOUR: STRUCTURE AND STATUS OF BUSINESS & INDUSTRY IN INDIA

15 HOURS

Unregistered firms/Bagedari sector, Start-ups and MSME sector, Large Scale enterprises, Export oriented companies, MNCs in India, Family Business, Industry associations and bodies, Profile of eminent industry persons and houses.

Present status and performance of Agriculture and allied fields like horticulture, food

processing, animal husbandry, fishing, contract farming etc; Industry sectors like textiles, chemicals, sugar, paper, machine tools, auto components, engineering products, pharmaceutical, biotechnology, semiconductor, hardware products, coal, mining, consumer durables, FMCG etc.;Service sectors like information technology, hospitality, tourism,health care, banking, financial services, insurance, tourism, retail etc.

5

MODULE FIVE: GROWTH OF BUSINESS & INDUSTRY

8 HOURS

Nature and types of crisis, Physical damage crisis, non-physical damage crisis, Stages of crisis like pre crisis stage, acute crisis, post crisis, consequences of and strategies for managing crisis; Management of human and other resources, changing manpower requirements, Growth dimensions and phases, growth barriers, succession and exit strategies.

6

MODULE SIX: INTERFACE WITH VOLUNTARY ORGANIZATIONS

8 HOURS

Provisions of Companies Act 2013, CSR Rules, 2013; Meaning, characteristics and role of non-governmental organizations (NGOs), Voluntary Organisations (VOs), Non-profit organizations (NPOs), Civil society organizations (CSOs), Types of NGOs by orientation, level of co-operation, scope and coverage, Present status of third sector in India

5. PEDAGOGY AND CASE STUDIES:

- Lectures
- Case Discussions and Practical Visits to Industry and NGOs
- Assignments and Presentations
- Workshops by Rural and NGO Promoters / Managers / Experts.

6. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Ashwani Mahajan & Gaurav Datt “Datt & Sundharam Indian Economy” S chand 2013, 69th Edition.
2. Nitin Dhingra & Ishwar C Dhingra “Developing New Enterprise” Cosmos Bookhive 2014, 1st edition.
3. Osama Lari “Industrial sociology” Word Press publication, 2010, 1st edition.
4. Uma Kapil, “Indian economy – Performance and Policies” Academic Foundation 2009, 8th edition.
5. Vaidyanathan. R “Reforming the reforms process” Silver jubilee research volume, IIMB India.
6. Harvard Business Essentials, “Crisis Management: Master the Skills to Prevent Disasters” Harvard Business Review Press (20 September 2011).
7. PRIA (2000) “Defining the sector in India –voluntary, civil or non-profit” Working paper 1 New Delhi.
8. Sushilaravindranath “The CII Entrepreneur’s Handbook” Westland Ltd, 2010.

REFERENCES

1. Dr. Yogesh M. Kulkarni “Performance of Indian Industrial Sector” Binding: HBR Year: 2011
2. Bachcha & Pathak “industrial policy-India” Deep and Deep publication Pvt ltd, 2007.
3. C. V. Madhavi “Business in Crisis” Create Space Independent Publishing Platform.

7. TEACHING AND LEARNING RESOURCES

1. www.wikipedia.com
2. www.industryreview.com
3. www.bls.gov/opub/mlr/2008/12/art3full.pdf
4. http://en.wikipedia.org/wiki/Putting-out_system
5. http://www.universityofcalicut.info/SDE/BA_sociology_indian_society.pdf
6. http://en.wikipedia.org/wiki/Economic_history_of_India

7. http://orissa.gov.in/e_magazine/Orissareview/aug2005/engpdf/the%20swadeshi%20movement.pdf
8. http://zeenews.india.com/business/slideshow/indian-economy-a-journey-of-last-66-years_68.html/10
9. <http://business.mapsofindia.com/india-policy/liberalization-privatization-globalization.html>
10. <http://www.slideshare.net/shahavish/industrial-policy-from-1948-1991>
11. <http://msme.gov.in/Web/Portal/New-Default.aspx>
12. http://www.eximguru.com/exim/eou/ch_1_export_oriented_units_eous_introduction.aspx
13. <http://business.mapsofindia.com/india-company/multinational.html>
14. http://www.encubeindia.com/downloads/indian_family_businesses.pdf
15. http://nrlp.iwmi.org/PDocs/DReports/Phase_01/04.%20WTO%20and%20agriculture%20-%20RPS%20Malik.pdf
16. http://mospi.nic.in/Mospi_New/upload/SYB2014/CH-9-HORTICULTURE/horticulture.pdf
17. <http://www.asa.in/pdfs/surveys-reports/Food-Processing-Sector-in-India.pdf>
18. <http://pib.nic.in/archieve/others/2012/mar/d2012031308.pdf>
19. <http://www.slideshare.net/sathishhs7/nature-and-scope-of-contract-farming-in-india>
20. <http://www.slideshare.net/AnujDiwakar/gptaie>
21. http://en.wikipedia.org/wiki/Chemical_industry
22. http://www.in.kpmg.com/pdf/Indian_Sugar_Industry.pdf
23. <http://www.yieldopedia.com/paneladmin/reports/07dc15673834d4ced6b89a854c4b2980.pdf>
24. http://dhi.nic.in/indian_machine_tools_industry.pdf
25. <http://www.tsmg.com/download/article/Overview%20of%20the%20Indian%20Auto%20Component%20industry.pdf>

26. <http://www.cci.in/pdfs/surveys-reports/Engineering-Sector-in-India.pdf>
27. <https://www.in.kpmg.com/pdf/Indian%20Pharma%20Outlook.pdf>
28. http://www.ebtc.eu/pdf/Indian_Biotechnology_Sector-Overview_VO1.pdf
29. http://www.ibef.org/download/Semiconductor_171109.pdf
30. http://nmcc.nic.in/pdf/ithardware_03july2010.pdf
31. <https://www.pwc.in/assets/pdfs/industries/power-mining/icc-coal-report.pdf>
32. <http://pubs.iied.org/pdfs/G00615.pdf>
33. <http://www.surechill.com/pdf/India-refrigerator-market.pdf>
34. http://www.ibef.org/download/FMCG_060710.pdf
35. <http://perso.univ-rennes1.fr/eric.darmon/floss/papers/MATHUR.pdf>
36. <http://www.ibef.org/industry/tourism-hospitality-india.aspx>
37. <http://164.100.47.134/intranet/TourismSectorinIndia.pdf>
38. <http://www.slideshare.net/ankitag9/healthcare-industry-ppt>
39. <http://www.slideshare.net/verma786786/insurance-sector-ppt>
40. http://www.rasci.in/downloads/2012/Retail_Industry_India_2012.pdf
41. <http://www.scribd.com/doc/29700613/Crisis-Management-Ppt>
42. <http://www.tutor2u.net/business/strategy/crisis-management-introduction.html>
43. <http://www.slideshare.net/BabasabPatil/human-resource-management-ppt>
44. http://www.cf-sn.ca/business/business_succession/common_exits.php
45. http://www.nesta.org.uk/sites/default/files/barriers_to_growth_0.pdf
46. <http://hbr.org/1998/05/evolution-and-revolution-as-organizations-grow/ar/2>
47. https://www.pwc.in/en_IN/in/assets/pdfs/publications/2013/companies-act-2013-Key-highlights-and-analysis.pdf

1.7 COMMUNICATION SKILLS

1. GENERAL INFORMATION

Credits	2
Hours per week	2

2. PERSPECTIVE OF THE COURSE

A fundamental part of a Manager's job is Decision making and Implementation. Initially, he assists in making decision by collecting information, analyzing and preparing a frame work for Decision Making. At a later stage when he reaches positions of higher responsibility, he takes decision and involves in implementation. A sound decision requires critical analysis of the problem, collection of relevant data; develop clear objectives and later workout an action plan. A logical approach and systematic analytical thinking, Reasoning, use of evidences are essential components of sound decisions. Apart from this, he must also have the required skills to present and communicate. One more dimension is inter-personal and group communication including negotiations. Hence, need of the hour is to develop all such skills hands on.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To sharpen the Analytical, Written, non-verbal, Spoken Communication and inter-personal Skills essential in organizations involving Decision making and implementation.
- To demonstrate good team work and negotiation skills

OUTCOMES

- At the end of this course, students will have the clarity about communication skills to be used in organizations.

4. COURSE CONTENT AND STRUCTURE

- 1** **MODULE ONE: COMMUNICATION IN BUSINESS** **4 HOURS**

Importance of Communication, Forms of Communication, Communication Network of the Organization; Process of Communication: Different Stages, Difference between Oral and Written Communication
- 2** **MODULE TWO: ORAL COMMUNICATION SKILLS** **6 HOURS**

Fundamentals, Barriers and Gateways, Public Speaking, Effective Power point presentation, body language, non-verbal, facial expressions, voice modulation, eye contact, audience research, questions from the audience, communication and emotional intelligence, creativity in oral communication, Communication through Telephonic, video and Skype, Group Discussion.
- 3** **MODULE THREE: WRITTEN COMMUNICATION SKILLS** **8 HOURS**

Writing an Effective Report: Stages of Writing, Style and Tone; Five Ws and one H of Report Writing, Divisions, Numbering and use of Visual Aids, creativity in written communication, use of picture, diagram in written communication, Writing Commercial Letters, E- Mail Messages, Maintaining a Diary, Job applications & resume writing
- 4** **MODULE FOUR: LISTENING SKILLS** **4 HOURS**

Importance and need, types, active and empathic listening, listening and judgment, developing skills, listening and understanding, Anatomy of poor Listening, Features of a good Listener
- 5** **MODULE FIVE: INTERPERSONAL COMMUNICATIONSKILLS** **8 HOURS**

Advantages and disadvantages of utilizing the team work; characteristic features of successful teams; stages of the development of a team; team roles; challenges in team

working, forms of non-team behaviour.

Conditions of negotiating; strategies of negotiating (win-win, win-loss); participative negotiations; negotiating tactics; cognition and emotions in negotiating; negotiating and ethics

Types and sources of conflicts; the influence of various cultures on the solving of conflicts

5. TEACHING AND LEARNING RESOURCES

- a. http://eff.cls.utk.edu/fundamentals/eff_standards.htm
- b. <http://www.ndted.org/TeachingResources/ClassroomTips/Communication.htm>

6. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Monipally MM, Business communication strategies, McGraw Hill
2. Bovee, Till and Schatzman, Business Communication today, Pearson

REFERENCES

1. Scot Ober, Contemporary Business Communication, Biztantra
2. ParagDiwan, Business Communication, Excel Book
3. Lesikar, R.V. & Flatley, M.E, Basic Business Communication Skills for Empowering the Internet Generation. Tata McGraw Hill Publishing Company Ltd
4. Ludlow, R. & Panton, F, The Essence of Effective Communications. Prentice Hall of India Pvt. Ltd
5. Chaturvedi P. D, & Mukesh Chaturvedi, Business Communication : Concepts, Cases And Applications –2/e, Pearson Education
6. Murphy, *Effective Business Communication*, McGraw-hill

**MASTER OF BUSINESS ADMINISTRATION
UNDER
CHOICE BASED CREDIT SYSTEM (CBCS)**

(2014 - 2015 ONWARDS)

COURSE CONTENTS OF SECOND SEMESTER

CANARA BANK SCHOOL OF MANAGEMENT STUDIES,

BANGALORE UNIVERSITY, BANGALORE

COURSE MATRIX

SECOND SEMESTER

PAPER	SUBJECT
2.1	Technology for Management
2.2	Management Research Methods
2.3	Entrepreneurship and Ethics
2.4	Human Capital Management
2.5	Financial Management
2.6	Quantitative Techniques and Operations Research
2.7	Innovation Management

2.1 TECHNOLOGY FOR MANAGEMENT

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Today's organizations rely heavily on computer systems. As day-to-day business goals are increasingly affected by these systems, qualified professionals, who can successfully manage, will be required in the business field. This paper is mandatory for aspiring managers who understand and embrace the role of technology within a business and who are ready to make the leap into management within an IT environment. Students are expected to gain skills in strategic information technology and management that they can apply immediately in the workplace.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To elevate students' awareness of information technology and develop an in-depth and systematic understanding of key aspects of IT Management
- To help students gain a strategic perspective on business
- To evaluate the value of emerging technologies and their competitive advantage

OUTCOMES

- By the end of the course, students will gain the skills required to navigate through the complexities of managing data and also become the appreciators of technological environment.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE

4 HOURS

Introduction and definition of computer, Brief history (Analog, Digital, Binary language), Major components of a computer system, Interfacing with a computer, Hardware and Software with examples, Introduction to languages, compiler, interpreter and assembler. Operating Systems: Definition, Functions, Types and Classification, Elements of GUI based operating system-Windows-Use of menus, tools and commands of windows operating system, Linux and free and open software; Computer Networks: Overview and Types (LAN, WAN and MAN), Network topologies, Internet; Data representation and computer security

2

MODULE TWO

4 HOURS

Data and Information, MIS, Decision Making and role of MIS, Planning for MIS; System Development Methodologies; Conceptual and detailed designs of MIS

3

MODULE THREE

10 HOURS

Information systems for strategic advantage, Strategic role for information system, Breaking business barriers, Business process reengineering, Improving business qualities.

Information system analysis and design, Information SDLC, hardware and software acquisition, system testing, documentation and its tools, conversion methods

Decision Support System: Overview, components and classification, Steps in constructing a DSS, Role in business, Group decision support systems, Expert systems.

4

MODULE FOUR

10 HOURS

System implementation Strategies and process; System Evaluation and Maintenance, Applications – cross –functional MIWS; ERP; CRM; SCM; Transaction Processing; Artificial Intelligence technologies in business: neural networks, fuzzy logic, virtual reality; Executive information systems

5

MODULE FIVE

12 HOURS

E-commerce: Introduction, Comparison between Traditional commerce and E-commerce, Advantages & disadvantages of E-commerce, Buying & Selling on Internet, Issues in Implementing Electronic Commerce. Applications of Information Technology: Information Technology (IT) applied to various functional areas of management, such as Production / Operations, Marketing, Human Resource, Finance and Materials Management.

Introduction to ERP Systems: Review of DBMS and Transaction processing concepts, Business Processes and integration across functions, Salient features of ERP systems offered by leading vendors, prerequisites and process of implementation.

6

MODULE SIX

16 HOURS

Introduction to OS and Office Software: Use of MS-Office, Basics of MS-Word, MS-Excel and MS-PowerPoint; Application of these software for documentation and making reports, Preparation of questionnaires, Presentations, Tables and reports (Practical)

Database Management Systems: Overview of DBMS; Components of DBMS, Recent trends in database, RDBMS; MS Access: Overview of MS-Access. Creating tables, queries, forms and reports in MS-Access

Internet Basics, Basic ways of connecting to the internet, Internet Protocol, IP Address, Working with Google Services: Docs, Spreadsheet, presenter, sites etc; Introduction to Oracle or MySQL

5. PEDAGOGY

Irrespective of where an individual is involved in the chain of statistical information, there is a necessity for a

6. TEACHING AND LEARNING RESOURCES

- a) www.socr.ucla.edu/
- b) www.ats.ucla.edu/stat/seminars/statteach/sites.htm
- c) www.onlinestatbook.com/2/chi_square/Chi_Square.html
- d) www.statsci.org/teaching.html

rudimentary understanding of the concepts of information technology. Towards this end, case studies will be extracted from Newspapers and Magazines regarding daily life and explored. These case studies will be in addition to the actual teaching hours expended in imparting technology for Management theory.

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Kenneth C. Laudon and Jane P. Laudon, "Information Systems", Pearson Publication.2013. Dorling Kindersley (India) Pvt. Ltd.
2. O'Brien, Management, Info Systems, Tata McGrawhill, Latest
3. Giridhar Joshi, Management Information Systems, Oxford University Press, 2013.

REFERENCES

1. Sudalaimuthu & Hariharan, Information Technology for Managers, Himalaya publications.
2. D.Monley & CS Parker, Understanding Computers Today & Tomorrow, Cengage/Thomson
3. ITL Education Solutions Ltd, Introduction to Computer Science, Pearson
4. D.P. Nagpal, Computer Fundamentals. S. Chand Publishers. 2013
5. Jaiswal & Mital, MIS, Oxford University Press, Latest edition.
6. Raju Chopra, Database Management Systems, S.Chand.

2.2 MANAGERIAL RESEARCH METHODS

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

This course is designed to help students undertake a research project and guide students through the entire research process. Business and management research involves undertaking systematic research to find out decision outcomes. It is trans-disciplinary, and engages with both theory and practice. The present paper intends to provide comprehensive knowledge & skills about the research methods that are employed to investigate problems in business. The paper discusses various steps in business research and introduces the concepts, tools and techniques that are used at each of these steps thereby, honing the research skills of future managers.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To instill a comprehensive and step-wise understanding of the research process with a balanced blend of theory and applicative technique.
- To familiarize students with the types of management problems of organizations.
- To facilitate them develop insights about basic concepts of research designs and methodology aimed at solving business problems.

OUTCOMES

- Students can be an asset to the organization by transforming into well equipped and scientifically skilled research professionals and managers by conducting research in every aspect of decision making in the organization.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE: INTRODUCTION TO MANAGEMENT RESEARCH

6 HOURS

Definition, Nature and role of Management Research, Types of Research based on Purpose, Process, Outcome, Nature, Action and Logic, Research concepts, constructs, propositions and hypotheses, Features of a good Research Study, Research Process, and Ethical issues.

2

MODULE TWO: RESEARCH PROBLEM, RESEARCH HYPOTHESIS AND RESEARCH DESIGN

12 HOURS

Identification and Selection of the Problem, Definition and Statement of the Problem, Evaluation of the Problem, Criteria and sources for identifying the problem, process of defining the problem.

Nature, Definition and Characteristics of Good Hypothesis, types of hypothesis. Formulation and testing of hypothesis

The Design of Research, Meaning, Need, dimensions and process, types of research design

3

MODULE THREE: DATA COLLECTION AND MEASUREMENT CONCEPTS

10 HOURS

Scales of Measurement, Classification of Scales - Single Item v/s Multi Item Scales, Comparative v/s Non-Comparative scales, Continuous Rating Scales; Criteria for Good Measurement

Criteria for Questionnaire Designing; Types of Questionnaire; Questionnaire Design Procedure, Pilot test, validity and reliability of Questionnaire, Cronbachs alpha, interview schedule

Primary Data Collection, Classification of Survey methods, Evaluation Criteria for

Survey Methods; Observation Techniques, Classification of Observation Methods, Advantages and Limitations of Observation Techniques

Secondary Data Collection, Classification of Secondary Data Sources, Evaluation of Secondary Data, Roadmap to use Secondary Data, Benefits and Drawbacks of Secondary data

Qualitative methods, Methods, Focus Group Method, Personal Interview Method and Projective Techniques

MODULE FOUR: SAMPLING AND DATA PREPARATION

10 HOURS

4

Sampling, Concept of Sample and Target Population, Sample frame, Sample unit and sample size, Characteristics of a Good Sample, Sampling Design Process; Probability and Non Probability Sampling Design, Sampling v/s Non-Sampling Error; Determination of Sample Size.

Data Preparation, Field Validation, Data editing, Coding, Content Analysis, Classification and Tabulation of Data.

MODULE FIVE : DATA ANALYSIS

10 HOURS

5

Basic data analysis: Descriptive Statistics, Univariate and Bivariate Statistical Analysis (concepts), Parametric & Non-Parametric Tests; Null & Alternative Hypothesis, Error in Testing of Hypothesis, Critical Region, Degrees of Freedom, One Tailed & Two Tailed Tests, Standard Error; Procedure for Testing of Hypothesis.

Parametric test, Non parametric test and Factor Analysis: Conditions for applicability, practical applicability, Implementation and statistical Inference of the above test .

6

MODULE SIX: RESEARCH REPORT WRITING

8 HOURS

Types of Research Report, Report Structure, Report Writing: Report Formulation, Guidelines for effective Documentation and visual representation (Graphs) and Research Briefing –Oral Presentation.

5. PEDAGOGY

Extensive exercises and activities, role playing, field work, Live Research, Use of statistical software and Case studies to see the linkages between the chapters and to provide enhanced insight to comprehend the research methodologies illustrated in each chapter.

6. TEACHING AND LEARNING RESOURCES

- a) www.cmie.com/database
- b) www.indiastat.com
- c) www.hindu.com
- d) www.economictimes.com
- e) www.indianresearchjournals.com
- f) Journal of Business Research
- g) International Business & Economics Research Journal

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Deepak Chawla, NeenaSondhi, “Research Methodology concepts and Cases”, Vikas Publishing House Pvt Ltd
2. William Zikmund, Barry Babin, Jon Carr, Mitch Griffin, “Business Research Methods”, Cengage Learning.
3. Naval Bajpai, “Business Research Methods”, Pearson Education

REFERENCES

- 1 Donald R Cooper, Pamela S Schindler, JK Sharma, “ Business Research Methods”, McGraw Hill
- 2 R. Panneerselvam, “Research Methodology”, Prentice hall
- 3 SL Gupta, “Research Methodology”, International Book House Pvt Ltd
- 4 Alan Bryman, Emma Bell, “Business Research Methods”, Oxford University Press.
- 5 Naresh K Malhotra and Satyabhushan Dash, “Marketing Research”, Pearson Education

2.3 ENTREPRENEURSHIP AND ETHICS

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

The entrepreneur who implements 'new combinations of means of production' plays a crucial role in disturbing the status quo through innovation — or 'creative destruction' — and thereby becomes an agent of change. As such, the 'dynamic equilibrium' achieved by a constantly innovating entrepreneur could generate the conditions for increasing opportunities for employment among other things. It is in the creation of more wealth, and in the constant innovation from prevailing to the next best practices, that the significance and importance of Entrepreneurship lies.

Entrepreneurship has been 'embedded in the Indian genius and is a part of its tradition'. Renowned economist, T.N. Srinivasan says, 'India has been an entrepreneurial society...we had the entrepreneurial skill but suppressed it for too long a time... and now it is thriving.'

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To inculcate the spirit and perspective of entrepreneurship among students
- To make the students job creators instead of job seekers.
- To enable the students to critically examine ethical dilemmas in entrepreneurship

OUTCOMES

- At the end of the course, the students would be aware of alternative to jobs and employment which will make them job providers in an ethical manner.

4. COURSE CONTENT AND STRUCTURE

- 1** **MODULE ONE: ENTREPRENEURSHIP IN THE NEW MILLENNIUM** **8 HOURS**

Concepts of entrepreneur and entrepreneurship, Importance and Characteristics of entrepreneurs, Types of entrepreneurs, Benefits and potential risks of entrepreneurship, Myths of Entrepreneurship, Factors affecting growth of Entrepreneurship in India, Role of Entrepreneurship in Economic Development
- 2** **MODULE TWO: OPPORTUNITY ASSESSMENT** **10 HOURS**

Opportunity Identification and Selection, Environmental dynamics and changes, Business Opportunities in emerging environment, challenges of new venture start-ups, Pit falls in selecting new ventures, Critical factors for new venture development, Why new ventures fail, Sources of Finance for New Venture.
- 3** **MODULE THREE: FEASIBILITY ANALYSIS AND CRAFTING BUSINESS PLAN** **12 HOURS**

Feasibility analysis of Industry, Market , Product or service and Finance ; Business plan – Meaning, Significance, contents, formulation and presentation of Business Plan, Common errors in Business Plan formulation.
- 4** **MODULE FOUR: LEGAL FORMS OF ENTREPRENEURIAL ORGANIZATIONS** **6 HOURS**

Identifying legal structures, Selection of an appropriate legal structure, Sole proprietorships, Partnerships, Companies, Companies under section 25, Franchising, Legal environment – patents, copyrights, trademarks.
- 5** **MODULE FIVE: SOCIAL ENTREPRENEURSHIP** **8 HOURS**

Introduction, Meaning, Perspective of social entrepreneurship, Social entrepreneurship in practice, Boundaries of Social entrepreneurship, Few experiments.

6

MODULE SIX: ETHICS AND ENTREPRENEURSHIP

12 HOURS

Meaning and Need for business ethics, Arguments for and against Business ethics, Ethics and laws, Establishing strategy for ethical responsibility, Approaches to managerial ethics, Ethics and Business decisions, Frame work for ethical decision making, CSR, Environmental awareness, Ethical leadership by entrepreneurs, Corporate citizenship.

5. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Kanaka SS- Entrepreneurial development, S Chand -Fourth edition.
2. Robert D. Hisrich and Michael P. Peters, 'Entrepreneurship '. McGraw – Hill
3. Poornima.M.Charantimath, Entrepreneurship Development Small Business Enterprises, Pearson Education
4. Hartman, Laura.P, Perspectives in Business Ethics, McGraw Hill.

REFERENCES

1. Thomas .W.Zimmerer&Norman.M.Scarborough, Essentials of Entrepreneurship and Small Business Management, PHI
2. Jeffry .A.Timmons& Stephen spinelli, New Venture Creation, Entrepreneurship for the 21st Century, Tata McGraw Hill.
3. Dr.ArunaKaulgud, Entrepreneurship Management, Thomson.
4. Mandal.S.K, Ethics in Business and Corporate Governance, Tata McGraw Hill.
5. Vasant Desai , 'Dynamics of Entrepreneurial Development and Management' Himalaya Publishers
6. RashmiBansal, Take me Home, Westland Ltd, 2014

2.4 HUMAN CAPITAL MANAGEMENT

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Personnel of yester years have become human resources in the recent years. This will emerge as human capital in the coming years. Organizations need to address these paradigm shifts. The managers in these organizations would be change agents in this regard. Hence, students pursuing management courses have to facilitate this. Their understanding of not only basics but the shifts in philosophy and focus would go a long way in leveraging the changes occurring in the wider environment. This course addresses such felt needs.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To enlighten the students on the principles and practices of HR as a capital factor
- To introduce the entire gamut of scope of HR
- To capture the changing landscape of HR

OUTCOMES

- The students must be in a position to address the challenges of organizational management through and with human resources. Thereby, the manager would become harbinger of change management.

4. COURSE CONTENT AND STRUCTURE

1	MODULE ONE: ESSENTIALS OF HCM	8 HOURS
	Nature of HRM, Scope, functions and importance of HRM, Evolution of HRM, Difference with HRD, Contemporary issues and practices in HRM, Changing concept of HRM in India and in the globe.	
2	MODULE TWO: HUMAN CAPITAL PLANNING AND EMPLOYEE HIRING	8 HOURS
	Nature of job Analysis, job design, Job evaluation, Human resource planning, Demand forecasting, HR supply forecasting, Need for and factors influencing HRP, Career planning, Promotion, transfer, demotion and separation; Employee hiring- Nature of Recruitment, Sources of recruitment-internal and external, Employee selection, process of employee selection, New recruitment practices Job portals, employee reference, campus recruitment etc.	
3	MODULE THREE: HR DEVELOPMENT	10 HOURS
	Nature and importance of Training, Methods of training, TNA, Nature of HRD program, Methods of management development and Executive development programs, Development beyond training, Contemporary HRD practices	
4	MODULE FOUR: PERFORMANCE MANAGEMENT SYSTEM	8 HOURS
	Nature and Importance of performance appraisal and PMS, Methods and models, Difference with Performance Appraisal, Future of performance management system.	
5	MODULE FIVE: COMPENSATION MANAGEMENT AND EMPLOYEE RELATIONS	12 HOURS
	Introduction to compensation management, Components of employee and executive compensation, Factors affecting employee compensation, Employee incentive	

schemes, and Recent trends in compensations management.

Nature of employee relation, Industrial relations, Resolution of industrial disputes, Employee grievance, Trade union and their relevance.

6

MODULE SIX: STRATEGIC HRM

10 HOURS

Introduction, characteristics and scope of SHRM, SHRM Vs Conventional HRM, Barriers to strategic HRM, Linking HR strategy with business strategy, SHRM and business performance.

5. PEDAGOGY

The syllabus, which builds upon theory and concepts, takes the students through examples from corporate in various countries. This will give students an insight in to a more logical and pragmatic manner. The students can apply these concepts at appropriate situations.

6. TEACHING AND LEARNING RESOURCES

- a) www.hreonline.com
- b) www.successinhr.com
- c) www.managementhelp.org/humanresources/
- d) www.hr.com
- e) www.human-resources.org
- f) www.hrmguide.net
- g) www.hronline.com
- h) www.humancapitalonline.com
- i) www.humanresources.about.com
- j) www.iaeme.com/ijmhrm.asp
- k) www.sagepub.in/journals
- l) www.iupindia.in/Human_Resource_Management_Review.asp
- m) The Human Resource Management Review
- n) The International Journal of Human Resource Management
- o) Human resource development quarterly
- p) International Journal of Human Resource Development and Management (IJHRDM)

- q) International Journal of Marketing & Human Resource Management (IJMHRM)
- r) Journal of Strategic Human Resource Management
- s) South Asian Journal of Human Resources Management
- t) Human Resource Management Journal
- u) Asia Pacific Journal of Human Resources

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Gary Dessler and BijuVarkkey (2013), Human Resource Management, Person Publication, 12th Edition.
2. P. Jyothi and D.N Venkatesh (2013), Human Resource Management. Oxford Publication. 2nd Edition.
3. BiswajeetPattanayak (2014), "Human Resource Management", PHI Publications, 4th Edition.
4. V.S.P.Rao and C.B. Mamoria (2012), "Personal Management (Text and Cases)", Himalaya Publications, Thirtieth Edition.

REFERENCES

1. A.M Sheikh, Human Resource development and Management, 3rd Revised edition, S Chand publication
2. Snell and Bohlander, Human Resource Management, South-Western Cengage Learning. Indian Edition.
3. Uday Kumar Haldar and JuthikaSankar, Human Resource Management. Oxford Higher Education, 2012
4. SeemaSanghi, Human Resource Management, VikasPubllications, 2014
5. SharouPande and SwapnalekaBasak, Human Resource Management, Pearson Education, 2012
6. K. Aswathappa, Human Resource Management, McGraw Hill Education 7th edition, 2013)
7. D Gopalakrishna, Case incidents in Human resource Management, IK International Publishers, 2014

2.5 FINANCIAL MANAGEMENT

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Getting a business idea, making a product or designing a service, marketing the same and managing people are some of the important functions or activities of a business undertaking. A business may be successful in all these, yet could fail on account of improper financial management. Knowing how to fund the business enterprise, how to employ the funds mobilized effectively and productively, how to allocate resources among various opportunities, managing the day-to-day needs of the business etc., must not be experimented with. This course aims at equipping a potential manager the tools and techniques which help in making financial decisions of the business and thereby lead to achieving the goal of business – ‘wealth maximization’.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To provide the concepts and foundations of managing finance in business enterprises.
- To equip students with tools and techniques for managing finance.
- To orient the students regarding financial management practices in Indian companies and Global enterprises.

OUTCOMES

- By the end of this course, a student would learn to identify financial challenges, tools and techniques for decisions and would get a glimpse of practices.

4. COURSE CONTENT AND STRUCTURE

1	MODULE ONE: INTRODUCTION TO FINANCIAL MANAGEMENT 6 HOURS
	Concept of Financial management - Meaning and definitions, Scope of Financial Management, finance functions, Financial Goals of a firm, Agency problem, Emerging role of finance manager in India.
2	MODULE TWO: TIME VALUE OF MONEY 6 HOURS
	Compounding, Continuous Compounding, Effective Rate of Interest, Discounting – Single Cash Flows & Series of Cash Flows, Annuity – Future Value and Present Value, Present Value of Growing Annuity, Perpetuity – Present Value, Growing Perpetuity – Present value, Equated Annual Installments
3	MODULE THREE: LONG-TERM FINANCING DECISIONS 12 HOURS (CAPITAL STRUCTURE DECISIONS)
	Sources of Funds: Short term sources, Long term sources, Venture Capital: features, stages and types of venture capital. Factors influencing capital structure,
	Benefit to Owners – EBIT –EPS Analysis, Point of Indifference, Financial Break-even Point
	Cost of Capital- Methods of computing cost of capital: Cost of Equity Capital, Cost of Preferred Capital, Cost of Debt Capital, Cost of internally generated funds, Weighted Average Cost of Capital (Theory and Problems)
	Leverages- Types and Measurement

4

MODULE FOUR: LONG-TERM INVESTMENT DECISIONS

12 HOURS

(CAPITAL BUDGETING DECISIONS)

Meaning of Capital Budgeting, Significance, Principles, Capital budgeting proposals, Methods of appraising proposals; Payback period, ARR, IRR, MIRR, NPV, Profitability Index, Utility Method, EVA Method, APV Method, Capital Rationing.

5

MODULE FIVE: SHORT-TERM FINANCING AND INVESTMENT DECISIONS 14 HOURS

(WORKING CAPITAL MANAGEMENT)

Concept of working capital, factors determining working capital, Sources of working capital, estimating working capital needs, Managing cash, marketable securities, debtors and inventory.

6

MODULE SIX: DIVIDEND DECISIONS

6 HOURS

Meaning, Theory of relevance and Theory of Irrelevance, Walter's Model, Gordon's Model (Theory and Problems) Types of dividends, Bonus Shares, Stock Splits.

5. PEDAGOGY

- a) Lectures.
- b) Demonstrations using Excel
- c) Practical Exercises – Individual and Group
- d) Case Studies.

6. TEACHING AND LEARNING RESOURCES

- a) www.bseindia.com
- b) www.capitalmarket.com
- c) www.cmie.com

- d) www.financeprofessor.com
- e) www.moneycontrol.com
- f) www.rbi.gov.in
- g) www.sebi.gov.in

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. Van Horne, James, "Financial Management and Policy", Prentice Hall.
2. Brealy, Richards; and Myers, Stewart, "Principles of Corporate Finance", Tata McGraw-Hill
3. Ross, Stephen; Westerfeild, Randolph, Jaffe, Jeffrey and Kakani, Ram Kumar, "Corporate Finance", Eighth Edition, McGraw Hill.
4. Gitman, J. Lawrence, "Principles of Managerial Finance", Pearson Education.
5. Damodaran, Aswath, "Corporate Finance", John Wiley & Sons Inc.
6. DamodaranAswath, "Applied Corporate Finance", John Wiley & Sons Inc.
7. Chandra, Prasanna, "Financial Management – Theory and Practice", Tata McGraw-Hill Publishing Company Limited.
8. Pandey, IM, "Financial Management", Vikas Publications.
9. Khan, M.Y., and Jain, P.K., "Financial Management – Text, Problems and Cases", Tata McGraw-Hill Publishing Company Limited.

REFERENCES

1. Kishore, M. Ravi, "Financial Management – with Problems and Solutions", Taxmann Allied Services (P) Ltd.
2. Rajiv Srivastava, Anil Misra- Financial Management, Oxford Higher Education 2013.
3. Shashi K Gupta, R K Sharma Financial Management- Theory and practice, Kalyani publishers 8th edition.
4. Bodhanwala, J. Ruzbeh, "Financial Management using Excel Spreadsheet", Taxmann Allied Services (P) Ltd.

5. Bahal, Mohit, "Practical Aspects of Financial Management", SuchitaPrakashan (P) Ltd.
6. Sharma, Dhiraj, "Working Capital Management – A conceptual Approach", Himalaya Publishing House.
7. Bhalla, V.K., "Financial Markets and Institutions", S.Chand and Co.
8. Hampton, John, "Financial Decision Making – Concepts, Problems and Cases", Prentice Hall of India.
9. Hawawini, Gabriel and Viallet, Claude; "Finance for Non-finance Managers", South-Western CENGAGE Learning.
10. Khan, M.Y; "Indian Financial System", TheMcGraw Hill Companies.
11. Sharma, Meera; "Management of Financial Institutions", Eastern Economy Edition.
12. Bhole and Mahakud, "Financial Institutions and Markets – Structure, Growth and Innovations", TheMcGraw Hill Companies.
13. Guruswamy, S., "Financial Services and System", McGraw Hill Companies.

2.6 QUANTITATIVE TECHNIQUES AND OPERATION RESEARCH

1. GENERAL INFORMATION

Credits	4
Hours per week	4

2. PERSPECTIVE OF THE COURSE

Resources are always critical in any organization. They are unavailable in unlimited manner. There are always constraints. Operation research is helpful in the situation of such constraint of resources. Managers have to manage limited available resources in such a way that neither production nor other activities get disturbed in the business. Facility design is a fascinating area for OR. The excitement of operation research lies in the application of Quantitative techniques to real world problems.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES

- To impart knowledge in concepts and tools of OR and QT.
- To help students apply these tools in managerial decision making.

OUTCOMES

- The students must develop confidence and clarity in application of tools

4. COURSE CONTENT AND STRUCTURE

1	MODULE ONE	10 HOURS
	Origin and development: Importance, scope, techniques and characteristics, Optimization concept, Different types of models, Linear programming problem, Formulation, Product allocation, Blending and diet problems, Graphical solution, Simplex method (standard maximization) problems, Formulation of duality.	
2	MODULE TWO	10 HOURS
	Transportation: Importance, terminologies used, different methods for finding Initial basic feasible solution; NWCM, LCM and VAM, unbalanced, degeneracy in transportation, test for optimality (MODI method only), maximization problems.	
3	MODULE THREE	10 HOURS
	Assignment: Importance and characteristics of assignment problem, methods- minimization, maximization, balanced, unbalanced, prohibited and travelling salesman and crew assignment problems. Sequencing: terminologies and notations, types of sequencing problems; processing 'n' jobs through 2 machines, processing 'n' jobs through 'm' machines.	
4	MODULE FOUR	10 HOURS
	Network analysis: Phases, objectives, basic rules, PERT and CPM techniques, critical path and float analysis, probabilities in PERT analysis, project crashing problems.	
5	MODULE FIVE	6 HOURS
	Theory of games: Types, pure and mixed strategies with two people zero sum game, principle of dominance.	

Queuing Theory(waiting line): Single server/single queue, essential features of queuing system, single queue, operating characteristics of queuing system, probability distribution in queuing system, multi server, description of other queuing models (only description).

6

MODULE SIX

10 HOURS

Simulation: Basic concepts, procedures and application, Monte Carlo simulation using Random numbers.

Replacement Models: Failure mechanism of items, assumptions of replacement theory, types of replacement problems, replacement of items which deteriorates with time, replacement of items that fail completely including group replacement.

5. PEDAGOGY

OR is a discipline that deals with the application of advanced analytical methods to help make better decisions. Operations research arrives at optimal or near-optimal solutions to complex decision-making problems. Because of its emphasis on human-technology interaction and because of its focus on practical applications, operations research has overlap with other disciplines, notably industrial engineering and operations management.

6. TEACHING AND LEARNING RESOURCES

- a) <http://www.igi-global.com/journal/...journal-operations-research>
- b) <http://www.ifors.org/web/India/>
- c) <http://www.inderscience.com/ijmor>
- d) <http://www.ijorlu.ir/>
- e) Institute of operation research and management sciences (INFORMS) – interface journal
- f) International federation of operational research societies (INFORS)
- g) International conference proceedings/publications and international journals

- h) Operation research society of India- publications
- i) International Journal of Operations Research (IJOR)
- j) International federation of operation research societies (IFORS)
- k) International Journal of Mathematics in Operational Research
- l) Operational Research Society of India (ORSI)
- m) International Journal of Applied Operational Research

7. RECOMMENDED READINGS

ESSENTIAL READINGS

1. K.K.Chawla and Vijay Guptha, Operation research, quantitative techniques for management, Kalyani, 7th edition, 2014
2. N.D. Vohra (2012), "Quantitative techniques in management", Tata McGraw-Hill Publications, 4th Edition.
3. P.C Tulsian and Vishal Pandey (2012), quantitative techniques. Pearson Practice series. Low price Edition.
4. J.K.Sharma, Quantitative methods and operation research, Excel publication, 2012

REFERENCES

1. David M. Lenine (2012), quantitative techniques for management. Pearson publication.
2. Fedric S Hiller and Gerald J Lieberman (2012), introduction to operation research. 8th edition.
3. Er. Prem Kumar Guptha and Dr. D.S. Hira (2014), operation research. S.Chand publications.
4. Veerabadrappa Harinal (2012), An introduction to operation research. New Age international publishing.

5. Anand Sharma (2014), quantitative techniques for decision making. Himalaya Publishing House.
6. S. Kalavathi (2013), operation Research. Vikas Publications. 4th edition.
7. HamdyATaha (2013), operation research. Pearson publication. 9th edition.
8. G.V Shenoy and V.K. Srivathsava (2013), operation research for managerial decision. New Age international publishing.
9. PradeepprakashkarPai (2013), operation research principle and practices. Oxford Higher Education.
10. P.Rama Murthy (2014), operation Research. New Age international publishing. 2nd Edition.
11. C.K. Mustafi (2009), operation Research methods and practices. New Age international publishing. 3rd Edition

2.7 INNOVATION MANAGEMENT

1. GENERAL INFORMATION

Credits	2
Hours per week	2

2. PERSPECTIVE OF THE COURSE

India is increasingly becoming a top global innovator for high-tech products and services. Still, the country is underperforming, relative to its innovation potential—with direct implications for long-term industrial competitiveness and economic growth. About 90 percent of Indian workers are employed in the informal sector, and this sector is often characterized by underemployment, as well as low-productivity and low-skill activities. Although India has the benefit of a dynamic young population—with more than half of the country's population under 25 years old—only 17 percent of people in their mid-20s and older have a secondary education. To sustain rapid growth and help alleviate poverty, India needs to aggressively harness its innovation potential, relying on innovation-led, rapid, and inclusive growth to achieve economic and social transformation.

3. COURSE OBJECTIVES AND OUTCOMES

OBJECTIVES:

- To apprise on value of innovation
- To impart skills of innovation
- To enable students think and act on innovation

OUTCOMES:

- Conceptual and application clarity on innovation.

4. COURSE CONTENT AND STRUCTURE

1

MODULE ONE: EXPLORING INNOVATIONS

8 HOURS

Concept of innovation, historic retrospective, typology of innovations, innovation process, Macroeconomic view of innovation approaches to innovations, Assumptions and barriers to innovations, Innovation sources, i.e. science and R&D, technology transfer, push and pull approaches. Processes used to explore innovations along the technology, market and strategy dimensions as the innovation moves from idea to market

2

MODULE TWO: APPLICATION OF INNOVATION

8 HOURS

Organizational aspects of innovation, Soft methods and techniques of innovation management, Creative approaches, Systemic and analytical methods and techniques of innovation management, Economic aspects of innovations encompassing sources of innovation financing

3

MODULE THREE: MARKETING INNOVATION PRODUCTS

5 HOURS

Strategic considerations on innovations, innovation platforms that incorporate new product development, process innovations, service innovation, service design innovation, multiple product options, portfolios and standards

4

MODULE FOUR: EVALUATION OF INNOVATION

5 HOURS

Effectiveness evaluation, integration of risks, factors influencing economic effectiveness, Post implementation analysis of innovation projects, Intellectual property of innovations, legal aspects of innovations

5

MODULE FIVE : INNOVATION IN REALITY

4 HOURS

Mindset, lateral thinking, out of box approach, creativity, innovation for problem solving

5. TEACHING AND LEARNING RESOURCES

- a) www.iciindia.com
- b) www.johnstark.com
- c) www.shell.com/Innovation
- d) www.jugaadtoinnovation.com
- e) www.super30.org
- f) Harvard Business Review
- g) Journal of Product Innovation & Management
- h) Journal of Business Strategies
- i) Journal of Business Venturing

6. RECOMMENDED READINGS

ESSENTIAL READINGS

1. CK Prahalad and MK Krishnan : The new age of innovation, McGraw Hill
2. Paul Traut: Innovation Management and New product Development ,Pearson
3. Khandwalla: Corporate Creativity, McGraw hill

REFERENCES

1. Mauborgne, René, Blue Ocean Strategy, Boston, Harvard Business School Press, 2005.
2. Snyder, Duarte, Unleashing Innovation, How Whirlpool Transformed an Industry, Jossey-Bass, 2008
3. Mass, Harvard Business School Press, 2006
4. Fraser, Heather, Design Works; Toronto: University of Toronto Press, 2012
5. Govindarajan, Vijay & Trimble, Chris, 10 Rules for Strategic Innovators; Boston: Harvard Business School Press, 2005
6. Govindarajan, Vijay & Trimble, Chris, Reverse Innovation; Boston: Harvard Business School Press, 2012
7. Hamel, Gary, The Future of Management; Boston: Harvard Business School Press, 2007