



# Surana College

AUTONOMOUS

16, South End Road | Bengaluru-04  
Reaccredited 'A+' Grade by NAAC | Affiliated to Bengaluru University

1.1.1

Course Matrix & PO,PSO and CO's of all Departments

Department of B.Com Course Matrix

I Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	CM1FA	Financial Accountancy	DSC	3+0+2	60	40	100	4
2.	CM1BMS	Business Management & Startups	DSC	4+0+0	60	40	100	4
3.	CM1PM	Principals of Marketing	DSC	4+0+0	60	40	100	4
4.	CM1DF	Digital Fluency	SEC-SB	1+0+2	50	50	100	2
<b>Sub Total</b>								<b>14</b>

*Bhavana*

Principal  
Surana College  
(AUTONOMOUS)  
No. 16, South End Road,  
Bangalore - 560 004.



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## II Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	CM2AFA	Advanced Financial Accounting	DSC	3+0+2	60	40	100	4
2.	CM2BE	Business Ethics	DSC	4+0+0	60	40	100	4
3.	CM2BI	Banking Innovations	DSC	4+0+0	60	40	100	4
4.	CM2EVS	Environmental Studies	SEC-SB	1+0+2	50	50	100	2
<b>Sub Total</b>								<b>14</b>



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## Department of B.Com

### Vision, Mission, and PO, PSO and COs of all Departments

**Vision-** To become the department of excellence by nurturing the students to become best managers and entrepreneurs in diversified areas with high ethical and moral values.

**Mission-** To impart the knowledge of latest trend and development in the area of business and commerce and also attain the academic excellence.

- **PO, CO & PSO's Corporate Accounting**

Co Number	CO Statement
CO 1	Acquire the conceptual knowledge of the fundamentals of corporate accounting
CO 2	Understand the concepts and standards underlying the accounting procedures used to measure business. Performance
CO 3	Have a comprehensive knowledge about the latest provisions of the Companies Act.
CO 4	Gain expertise in preparation of final accounts as per the revised schedule VI
CO 5	To learn recent developments in Accounting and Accounting Standards.



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## Mapping of course outcomes with program outcomes

Cos/ Po's	PO1 Knowl edg e Und erst andi ng	PO 2 Pro ble m Anal ysis	PO 3 Design Solutio n	PO 4 Conduct investiga tion	PO 5 Appli catio n	PO 6 Pear revie w	PO 7 Effective communi cation	PO 8 Social interac tion	PO 9 Effective Mgt finance	PO 10 Ethi cs	PO 11 Environmen t & Sustainabili ty	PO 12 Life lon g lear nin g
CO 1	3	2	3	2	3	2	3	3	3	3	2	2
CO 2	3	3	2	2	3	2	3	3	3	3	2	2
CO 3	3	3	3	3	3	2	3	3	3	3	2	2
CO 4	2	2	3	3	3	2	3	3	3	3	2	2
CO 5	2	2	3	3	3	2	3	3	3	3	2	2
Aver age	2.75	2.5	2.75	2.5	3	2	3	3	3	3	2	2

3 strong,2 medium,1 low



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Subject Name	Principles Of Event Management
CO Number	CO Statement
CO 1	To get introduced to Event management and its world.
CO 2	Getting acquainted with the procedure of management of different events.
CO 3	Learning the credentials of conducting an event.
CO 4	To understand the basics of Public relations and the elements associated.
CO 5	To learn the different aspects of corporate events and the uniqueness from other events.



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## Mapping of Course Outcomes With Program Outcomes

Cos/ Po's	PO1 Know ledge Understa nding	PO 2 Proble m Analysi s	PO 3 Desi gn Solu tion	PO 4 Con duct inve stiga tion	PO 5 Appli catio n	PO 6 Pear revie w	PO 7 Effective communi cation	PO 8 Social interac tion	PO 9 Effective Mgmt. finance	PO 10 Ethi cs	PO 11 Environme nt & Sustainabili ty	PO 12 Life l ong lear nin g
CO 1	3	0	1	1	0	1	3	3	0	0	0	0
CO 2	3	1	2	2	2	1	3	3	1	1	1	0
CO 3	3	3	3	3	3	2	3	3	3	1	2	3
CO 4	3	3	3	3	3	3	3	3	1	2	0	2
CO 5	3	2	3	2	3	1	3	2	3	1	1	2
<b>Avera ge</b>	3	1.75	2.25	2.25	2	1.75	3	3	1.25	1	0.75	1.2 5

3 strong,2 medium,1 low



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## Advance Corporate Accounting

CO Number	CO Statement
CO 1	Acquire the conceptual knowledge of the fundamentals of corporate accounting
CO 2	Understand the concepts and standards underlying the accounting procedures used to measure business performance
CO 3	Have a comprehensive knowledge about the latest provisions of the Companies Act.
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CO 5	To learn recent developments in Accounting and Accounting Standards.



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## Mapping of Course Outcomes With Program Outcomes

Cos/Po's	PO1 Knowledg e Understan ding	PO 2 Proble m Analysi s	PO 3 Design Solution	PO 4 Conduct investig ation	PO 5 Applic ation	PO 6 Pear review	PO 7 Effective commu nication	PO 8 Socia l inter actio n	PO 9 Effectiv e Mgt finance	PO 10 Ethic s	PO 11 Environ ment & Substai nability	PO 12 Lifelon g learnin g
CO 1	3	2	3	2	3	2	3	3	3	3	2	2
CO 2	3	2	2	2	3	2	3	3	3	3	2	2
CO 3	3	3	3	3	3	2	3	3	3	3	2	2
CO 4	2	2	3	3	3	2	3	3	3	3	2	2
CO 5	2	2	2	2	2	2	3	3	3	3	2	2
Average	2.75	2.25	2.75	2.5	3	2	3	3	3	3	2	2





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**Subject Name: Business Ethics**

CO Number	CO Statement
CO 1	The objective is to provide basic knowledge of business ethics and values and its relevance in modern context.
CO 2	Define, explain and illustrate the theoretical foundations of business ethics;
CO 3	Enhance awareness and critical self-examination of one's own values, and to appreciate the relevance of personal values in the business/workplace setting;
CO 4	Encourage reflection on the ethical dimension of your own decision-making in workplace and other settings.
CO 5	Provide the skills with which to recognise and resolve ethical issues in business



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## Mapping Of Course Outcomes With Program Outcomes

PO, CO & PSO's

### Corporate Accounting

CO Number	CO Statement
CO 1	Acquire the conceptual knowledge of the fundamentals of corporate accounting
CO 2	Understand the concepts and standards underlying the accounting procedures used to measure business performance
CO 3	Have a comprehensive knowledge about the latest provisions of the Companies Act.
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## Mapping of Course Outcomes With Program Outcomes

Cos/ Po's	PO1 Knowled ge Understa nding	PO 2 Probl em Anal ysis	PO 3 Desig n Solut ion	PO 4 Conduct investig ation	PO 5 Applica tion	PO 6 Pear revi ew	PO 7 Effective communic ation	PO 8 Social interac tion	PO 9 Effect ive Mgt finan ce	PO 10 Ethi cs	PO 11 Environ ment & Sustaina bility	PO 12 Lifel ong learn ing
CO 1	3	2	3	2	3	2	3	3	3	3	2	2
CO 2	3	3	2	2	3	2	3	3	3	3	2	2
CO 3	3	3	3	3	3	2	3	3	3	3	2	2
CO 4	2	2	3	3	3	2	3	3	3	3	2	2
CO 5	2	2	3	3	3	2	3	3	3	3	2	2
Avera ge	2.75	2.5	2.75	2.5	3	2	3	3	3	3	2	2
3 strong,2 medium,1 low												



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## Subject Name: Principles Of Event Management

CO Number	CO Statement
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## Mapping Of Course Outcomes With Program Outcomes

Cos/P o's	PO1 Knowledg e Understan ding	PO 2 Probl em Analy sis	PO 3 Desig n Soluti on	PO 4 Conduct investiga tion	PO 5 Applicat ion	PO 6 Pear revi ew	PO 7 Effective communic ation	PO 8 Social interact ion	PO 9 Effect ive Mgt financ e	PO 10 Ethi cs	PO 11 Environm ent & Sustainab ility
CO 1	3	0	1	1	0	1	3	3	0	0	0
CO 2	3	1	2	2	2	1	3	3	1	1	1
CO 3	3	3	3	3	3	2	3	3	3	1	2
CO 4	3	3	3	3	3	3	3	3	1	2	0
CO 5	3	2	3	2	3	1	3	2	3	1	1
Avera ge	3	1.75	2.25	2.25	2	1.75	3	3	1.25	1	0.75
3 strong,2 medium,1 low											



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### Mapping of Course Outcomes With Program Outcomes

Cos/P o's	PO1 Knowledg e Understan ding	PO 2 Probl em Analy sis	PO 3 Desig n Soluti on	PO 4 Conduct investiga tion	PO 5 Applicat ion	PO 6 Pear revi ew	PO 7 Effective communic ation	PO 8 Social interact ion	PO 9 Effect ive Mgt financ e	PO 10 Ethi cs	PO 11 Environm ent & Sustainab ility
CO 1	3	2	3	2	3	2	3	3	3	3	2
CO 2	3	2	2	2	3	2	3	3	3	3	2
CO 3	3	3	3	3	3	2	3	3	3	3	2
CO 4	2	2	3	3	3	2	3	3	3	3	2
CO 5	2	2	2	2	2	2	3	3	3	3	2
<b>Avera ge</b>	2.75	2.25	2.75	2.5	3	2	3	3	3	3	2



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CO 2	Define, explain and illustrate the theoretical foundations of business ethics;
CO 3	Enhance awareness and critical self-examination of one's own values, and to appreciate the relevance of personal values in the business/workplace setting;
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## Mapping Of Course Outcomes With Program Outcomes

Cos/ Pos	PO1 Knowled ge Understa nding	PO 2 Probl em Analy sis	PO 3 Desig n Solut ion	PO 4 Conduct investig ation	PO 5 Applica tion	PO 6 Pear revi ew	PO 7 Effective communic ation	PO 8 Social interac tion	PO 9 Effect ive Mgt finan ce	PO 10 Ethi cs	PO 11 Environ ment & Sustaina bility	PO 12 Life long learn ing
CO 1	3	0	0	0	2	0	1	3	1	3	0	3
CO 2	3	0	0	0	3	0	0	2	1	3	0	3
CO 3	3	3	3	3	3	0	0	0	0	3	0	3
CO 4	3	0	0	0	3	0	0	3	0	3	0	3
CO 5	3	0	0	0	3	0	0	2	0	3	0	3
3 strong,2 medium,1 low												

### Subject Name QABD-I

CO Number	CO Statement
CO 1	To have a fundamental knowledge about statistics and its importance.
CO 2	To further understand the process of statistics, technical terms, collection, and tabulation of data.
CO 3	To familiarise with the asci averages, its applications, uses and presentations of the same.
CO 4	To gain knowledge of second order averages, description of data and analysis.
CO 5	To learn about Index numbers, its varieties, uses, applications and construction.



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## Mapping of course outcomes with program outcomes

Cos/PO's	PO1 Knowledge Understanding	PO 2 Problem Analysis	PO 3 Design Solution	PO 4 Conduct investigation	PO 5 Application	PO 6 Peer review	PO 7 Effective communication	PO 8 Social interaction	PO 9 Effective Mgt finance	PO 10 Ethics	PO 11 Environment & Sustainability	PO 12 Life long learning
<b>CO 1</b>	3	2	3	2	2	0	1	2	0	1	0	1
<b>CO 2</b>	3	2	3	2	2	0	1	2	0	1	0	1
<b>CO 3</b>	2	3	3	3	3	1	0	0	1	0	0	2
<b>CO 4</b>	2	3	3	3	3	1	0	0	1	0	0	1
<b>CO 5</b>	3	3	3	2	3	0	0	0	0	0	0	2
<b>Average</b>	2	2	2.25	2	2	0.5	0.25	0.5	0.5	0.25	0	1

3 strong, 2 medium, 1 low





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**Subject Name:** Financial Accounting

<b>CO Number</b>	<b>CO Statement</b>
CO 1	To have a fundamental knowledge about Accounting and its importance.
CO 2	To further understand the process of accounting, technical terms.
CO 3	To learn objectives and steps in conversion of single entry into double
CO 4	To gain knowledge accounting treatment related to hire purchase and royalty
CO 5	To learn the objectives and steps in conversion of partnership firm into a limited company



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## Mapping Of Course Outcomes With Program Outcomes

Cos/P o's	PO1 Knowl edge Under standi ng	PO 2 Pro ble m Ana lysis	PO 3 Des ign Solu tion	PO 4 Condu ct investi gation	PO 5 Appli catio n	PO 6 Pear revie w	PO 7 Effective communic ation	PO 8 Social interact ion	PO 9 Effective Mgt finance	PO 10 Ethi cs	PO 11 Environ ment & Sustainab ility	PO 12 Lifelo ng learni ng
CO 1	3	1	1	3	2	0	0	0	2	1	0	3
CO 2	3	1	1	1	2	0	0	2	0	1	0	2
CO 3	3	3	3	1	2	0	0	0	1	0	0	3
CO 4	3	3	3	1	2	0	0	0	1	0	0	3
CO 5	3	3	3	1	2	0	0	0	1	0	0	3
<b>Avera ge</b>	2.4	1.75	1.75	0.75	1.5	0	0	0.5	0.5	0.25	0	2
3 strong,2 medium,1 low												



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**Subject Name : Corporate Administration**

CO Number	CO Statement
CO 1	To understand company features and kinds of companies
CO 2	How to form a company MOM and AOA and stages of company formation
CO 3	To know to admin the company, directors, company secretary duty types and responsibilities
CO 4	To gain knowledge about corporate meetings and AGM
CO 5	To know how global companies work and their requirements

## Mapping Of Course Outcomes With Program Outcomes

Cos/ Pos	PO1 Knowled ge Understa nding	PO 2 Probl em Analy sis	PO 3 Desig n Solut ion	PO 4 Conduct investig ation	PO 5 Applica tion	PO 6 Pear revi ew	PO 7 Effective communic ation	PO 8 Social interac tion	PO 9 Effect ive Mgt finan ce	PO 10 Ethi cs	PO 11 Environ ment & Sustaina bility	PO 12 Lifel ong learn ing
CO 2	3	2	3	2	2	2	2	2	3	3	3	2
CO 3	2	3	3	3	3	3	2	3	3	3	3	2
CO 4	2	3	3	3	3	2	2	3	2	3	3	3
CO 5	3	3	3	2	3	3	2	3	2	3	3	3
Aver age	2	2	2.25	2	2	1.75	1.5	2	2	2.2 5	2.25	1.75



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## Course Matrix

### Department of Botany

Sem	Discipline Core (DSC) (L+T+P)(Credits)	Discipline Elective (DSE) /(OE) (Credits)	Ability Enhancement Compulsory Courses (AECC), Languages(Credits) (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill based (Credits) (L+T+P)	Value based (Credits) /Vocational studies(Credits) (L+T+P)	
I	Discipline A 1(6(4+2))	OE-1 (3)	L1-1 (3),		SEC-1: Digital	Health and Wellness/	25
	Microbial Diversity and Technology	Plants and Human welfare	L2-1(3)		Fluency (2) (1+0+2)	Social & Emotional Learning (2) (1+0+2)	
	Discipline B 1(6) BIOTECH/CHEM		(3+1+0 each)				
II	Discipline A 2(6)	OE-2 (2)	L1-2(3),	Environmental Studies (2)		Sports/NCC/NSS etc. (2) (1+0+2)	25
	Diversity of Nonflowering Plants	Plant propagation, Nursery	L2-2 (3)			1.Mushroom Culture	



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		Management and Gardening					
	Discipline B 2(6) BIOTECH/CHEM		(3+1+0 each)			Technology(1)	
<b>Exit option with Certificate (50 credits)</b>							
III	Discipline A 3(6)	OE-3 (3)	L1-3 (3),	Constitution of India (2)	SEC-2:		25
	Plant Anatomy and Developmental Biology	Community Forestry	L2-3(3)		Artificial Intelligence (2) (1+0+2)		
	Discipline B 3(6) BIOTECH/CHEM		(3+1+0 each)				
IV	Discipline A 4(6)	OE-4 (3)	L1-4 (3),		SEC-3: Cyber	Natural Resources Management	25
	Ecology and Conservation Biology	Wildlife conservation	L2-4(3)		Security (2) (1+0+2)		
	Discipline B 4(6) BIOTECH/CHEM		(3+1+0 each)				



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## Department of Mathematics

### Credit Distribution for B.Sc.(Honors) with Mathematics as Major in the 3<sup>rd</sup> Year (For Model IIA)

Subject	Semester	Major/ Minor in the 3 <sup>rd</sup> Year	Credits					Total Credi ts
			Discipline Specific Core (DSC)	Open Elective (OE)	Discipline Specific Elective (DSE)	AECC &Langu ages	Skill Enhancement Courses (SEC)	
Mathematics	I – IV	Major	4 Courses (4+2)× 4=24	4Courses 3 × 4 =12	---	(4+4=8) Courses 8×(3+1)= 32	2 Courses 2×(1+1)= 4	72
Other Subject		Minor	24	--	--	--	--	24
<b>96</b>								
Mathematics	V & VI	Major	4 Courses4×(3+2) =20	----	2Courses 2 × 3 =06	--	2Courses 2 × 2 =4	30
Other Subject		Minor	10	--	--	--	--	10
<b>(96+40)=136</b>								
Mathematics	VII & VIII	Major	2 Courses 2×(3+2)=10 3 Courses 3 × 4 = 12 1 Course 1 × 3 =3 Total=25	----	2Courses 2 × 3 =6 Res.Meth1 × 3 = 3 2 Courses 2 × 3 =6 Total=15	---	----	40
<b>Total No. of Courses</b>			<b>14</b>	<b>04</b>	<b>07</b>	<b>08</b>	<b>04</b>	
<b>136+40=176</b>								



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## Department of Physics

### Course Articulation Matrix

Mapping of Course Outcomes (CO) & Program Outcomes (PO)													
Course Outcomes / Program Outcomes		1	2	3	4	5	6	7	8	9	10	11	12
1.	Identify different types of waves by looking into their characteristics.	X	X	X	X	X	X					X	X
2.	Formulate a wave equation and obtain the expression for different parameters associated with waves.	X	X	X	X	X	X					X	X
3.	Explain and give a mathematical treatment of the superposition of waves under different conditions such as when they overlap linearly and perpendicularly with equal or different frequencies and equal or different phases.	X	X	X	X	X	X					X	X
4.	Describe the formation of standing waves and how the energy is transferred along the standing wave in different applications, and mathematically model in the case of stretched string and vibration of a rod.	X	X	X	X	X	X					X	X
5.	Give an analytical treatment of resonance in the case of open and closed pipes in general and Helmholtz resonators in particular.	X	X	X	X	X	X					X	X
6.	Describe the different parameters that affect the acoustics in a building, measure it and control it.	X	X	X	X	X	X					X	X
7.	Give the different models of light propagation and phenomenon associated and measure the parameters like the wavelength of light using experiments like Michelson interferometer, interference and thin films.	X	X	X	X	X	X					X	X
8.	Explain diffraction due to different objects like single slit, two slits, diffraction grating, oblique incidence, circular aperture and give the theory and experimental setup for the same.	X	X	X	X	X	X					X	X
9.	Explain the polarization of light and obtain how the polarization occurs due to quarter wave plates, half wave plates, and through the optical activity of a medium.	X	X	X	X	X	X					X	X





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## Department of Biotechnology

### Department of Botany Vision, Mission, and PO, PSO and COs of all Departments

#### Vision

- Our greatest responsibility is to pass on a legacy of which the coming generation can be proud.
- These are the tenets that we have envisioned for our department.
- To meet the academic needs of each and every student whose care is our primary goal.
- To develop students with disciplined and integrated personalities.
- To impart practical insight to make students technocrats in Botany.
- To create environmental awareness amongst students and make them ecofriendly with the environment.

#### Mission

- To provide education excellence to the students
- Prepare students to assume leadership positions in a rapidly changing technology driven world.
- To advance knowledge through research to create human resource personnel with high ethical standards & integrity.





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## Course Outcomes (Cos):

At the end of the course the student should be able to:

(Course outcomes are statements of observable student action that serve as evidence of knowledge, skills and values acquired in this course)

### Semester I (A-1): Microbial Diversity and Technology

1. Understand the fascinating diversity, evolution, and significance of microorganisms.
2. Comprehend the systematic position, structure, physiology and life cycles of microbes and their impact on humans and environment.
3. Gain laboratory skills such as microscopy, microbial cultures, staining, identification, preservation of microbes for their applications in research and industry.

### Semester II (A-2): Diversity of Non- Flowering Plants

1. Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.
2. Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes, Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.
3. Obtain laboratory skills/explore non-flowering plants for their commercial applications.



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## Program Outcomes(I and II Sem):

**By the end of the program the students will be able to:**

**PO1:** Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.

**PO2:** Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.

**PO3:** Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.

**PO4:** Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.



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## Department of Mathematics

### Vision

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- These are the tenets that we have envisioned for our department.
- To meet the academic needs of each and every student whose care is our primary goal.
- To develop students with disciplined and integrated personalities.
- To impart practical insight to make students technocrats in Botany.
- To create environmental awareness amongst students and make them ecofriendly with the environment.

### Mission

- To provide education excellence to the students
- Prepare students to assume leadership positions in a rapidly changing technology driven world.
- To advance knowledge through research to create human resource personnel with high ethical standards & integrity.



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## B.Sc. Mathematics (Honors)

**Programme Outcomes (PO):** By the end of the program the students will be able to:

PO 1	<b>Disciplinary Knowledge:</b> Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects.
PO 2	<b>Communication Skills:</b> Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used for modeling and solving of real life problems.
PO 3	<b>Critical thinking and analytical reasoning:</b> The students undergoing this programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.
PO 4	<b>Problem Solving :</b> The Mathematical knowledge gained by the students through this programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This programme enhances students overall development and also equip them with mathematical modeling ability, problem solving skills.
PO 5	<b>Research related skills:</b> The completing this programme develop the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.



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PO 6	<b>Information/digital Literacy:</b> The completion of this programme will enable the learner to use appropriate softwares to solve system of algebraic equation and differential equations.
PO 7	<b>Self –directed learning:</b> The student completing this program will develop an ability of working independently and to make an in depth study of various notions of Mathematics.
PO 8	<b>Moral and ethical awareness/reasoning:</b> : The student completing this program will develop an ability to identify unethical behavior such as fabrication, falsification or misinterpretation of data and adopting objectives, unbiased and truthful actions in all aspects of life in general and mathematical studies in particular.
PO 9	<b>Lifelong learning:</b> This programme provides self-directed learning and lifelong learning skills. This programme helps the learner to think independently and develop algorithms and computational skills for solving real word problems.
PO 10	Ability to peruse advanced studies and research in pure and applied Mathematical sciences.



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## Department of Chemistry

### Vision

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## Program Outcomes:

By the end of the program the students will be able to:

1. Create enthusiasm among students for chemistry and its application in various fields of life.
2. Provide students with broad and balanced knowledge and understanding of key concepts in chemistry.
3. Develop in students a range of practical skills so that they can understand and assess risks and work safely measures to be followed in the laboratory.
4. Develop in students the ability to apply standard methodology to the solution of problems in chemistry.
5. Provide students with knowledge and skill towards employment or higher education in chemistry or multi-disciplinary areas.
6. Provide students with the ability to plan and carry out experiments independently and assess the significance of outcomes and to cater to the demands of chemical Industries of well-trained graduates.
7. Develop in students the ability to adapt and apply methodology to the solution of unfamiliar types of problems.
8. Instil critical awareness of advances at the forefront of chemical sciences, to prepare students effectively for professional employment or research degrees in chemical sciences and to develop an independent and responsible work ethics.



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**Course Pre-requisite(s):** *PUC with Chemistry/ Any equivalent*

**Course Outcomes (COs):**

At the end of the course the student should be able to:

1. Learn the concepts of chemical analysis, accuracy, precision and statistical data treatment
2. Prepare the solutions after calculating the required quantity of salts in preparing the reagents/solutions and dilution of stock solution.
3. Know the concept of volumetric and gravimetric analysis and deducing the conversion factor for determination
4. Handle toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
5. Understand the concepts of Organic reactions and techniques of writing the movement of electrons, bond breaking, bond forming
6. Learn the Concept of aromaticity, resonance, hyper conjugation, etc.
7. Understand the preparation of alkanes, alkenes and alkynes, their reactions, etc.
8. Understand the mechanism of nucleophilic, electrophilic reactions





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## Department of Physics

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Course Articulation Matrix													
Mapping of Course Outcomes (CO) & Program Outcomes (PO)													
Course Outcomes / Program Outcomes		1	2	3	4	5	6	7	8	9	10	11	12
1.	Identify different types of waves by looking into their characteristics.	X	X	X	X	X	X					X	X
2.	Formulate a wave equation and obtain the expression for different parameters associated with waves.	X	X	X	X	X	X					X	X
3.	Explain and give a mathematical treatment of the superposition of waves under different conditions such as when they overlap linearly and perpendicularly with equal or different frequencies and equal or different phases.	X	X	X	X	X	X					X	X
4.	Describe the formation of standing waves and how the energy is transferred along the standing wave in different applications, and mathematically model in the case of stretched string and vibration of a rod.	X	X	X	X	X	X					X	X
5.	Give an analytical treatment of resonance in the case of open and closed pipes in general and Helmholtz resonators in particular.	X	X	X	X	X	X					X	X
6.	Describe the different parameters that affect the acoustics in a building, measure it and control it.	X	X	X	X	X	X					X	X
7.	Give the different models of light propagation and phenomenon associated and measure the parameters like the wavelength of light using experiments like Michelson interferometer, interference and thin films.	X	X	X	X	X	X					X	X
8.	Explain diffraction due to different objects like singles slit, two slits, diffraction grating, oblique incidence, circular aperture and give the theory and experimental setup for the same.	X	X	X	X	X	X					X	X
9.	Explain the polarization of light and obtain how the polarization occurs due to quarter wave plates, half wave plates, and through the optical activity of a medium.	X	X	X	X	X	X					X	X



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Department of Physics

B.Sc – 1<sup>st</sup> Year – I Semester -2022-2023

## Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6
Fixing units, tabulation of observations, analysis of data (graphical/analytical)	x					
Accuracy of measurement and sources of errors, importance of significant figures		x				
Knowledge of how g can be determined experimentally and derive satisfaction.	x					
Understanding the difference between simple and torsional pendulum and their use in the determination of various physical parameters					x	
Knowledge of how various elastic moduli can be determined	x					
Measuring surface tension and viscosity and appreciate the methods adopted	x					
Hands on experience of different equipments.	x					



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## Department of Biotechnology

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**Course Outcomes (Cos):** At the end of the course the students will be able to:

CO1: Understand concepts in Biotechnology and demonstrate knowledge acquires in interdisciplinary skills in cell biology and genetics.

CO2: Comprehend the structure of a cell with its organelles.

CO3: Understand the chromatin structure and its location

CO4: Understand the basic principles of life, and how a cell divides.

CO5: Explain the organisation of genes and chromosomes, chromosome morphology and its aberrations.

Course Articulation Matrix: Mapping of course outcomes (Cos) with Program Outcomes (Pos 1-12)



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## 1<sup>st</sup> Sem

### Program Outcome

PO1: Understand concepts in Biotechnology and demonstrate interdisciplinary skills acquired in cell biology, genetics, biochemistry, microbiology and molecular biology.

PO2: Demonstrate the laboratory skills in cell biology, basic and applied microbiology with an emphasis on technological aspects.

PO3: Competent to apply the knowledge and skills gained in the fields of plant biotechnology, animal biotechnology and microbial technology in pharma, food, agriculture, beverages, herbal and nutraceutical industries.

PO4: Critically analyze the environmental issues and apply the knowledge gained in biotechnology for conserving the environment and resolving the problem.

PO5: Demonstrate comprehensive innovations and skills in the field of biomolecules, cell biology, molecular biology, bioprocess engineering and genetic engineering of plants, microbes and animals with respect to applications for human welfare.

PO6: Apply Knowledge and skills of immunology, bioinformatics, computational modelling of proteins, drug design and simulations to test the models and aid in drug discovery.

PO7: Critically analyze, interpret data, and apply tools of bioinformatics and multi omics in various sectors of biotechnology including health and food.



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PO8: Demonstrate communication skills, scientific writing, data collection and interpretation abilities in all the fields of biotechnology.

PO9: Learn and practice professional skills in handling microbes, animals and plants and demonstrate the ability to identify ethical issues related to recombinant DNA technology, genetic engineering, animal handling, intellectual property rights, bio safety environment.

PO10: Explore the biotechnological practices and demonstrate innovation thinking in addressing the current day and future challenges with respect to food, health and environment.

PO11: Gain through knowledge and apply good laboratory and good manufacturing practices in biotech industries

PO12: Understand and apply molecular biology techniques and principles in forensic and clinical biotechnology.

PO13: Demonstrate entrepreneurship abilities, innovative thinking, planning and setting up of small-scale enterprises or CROs.





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## Department of BBA

### I Semester

Semester I								
Sl. No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
1.	Lang.1.1	Language - I	AECC	3+1+0	60	40	100	3
2.	Lang.1.2	Language – II	AECC	3+1+0	60	40	100	3
3.	MG1MI	Management Innovations	DSC	4+0+0	60	40	100	4
4.	MG1FA	Fundamentals of Accountancy	DSC	3+0+2	60	40	100	4
5.	MG1MM	Marketing Management	DSC	4+0+0	60	40	100	4
6.	BBA.1.4	Digital Fluency	SEC-SB	1+0+2	50	50	100	2
7.	BBA.1.5	Event Management	OEC	3+0+0	50	50	100	3
8.		Physical Education - Yoga	SEC-VB	0+0+2				1
9.		Health and Wellness	SEC-VB	0+0+2				1
<b>Sub –Total (A)</b>					<b>400</b>	<b>300</b>	<b>700</b>	<b>25</b>





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## II Semester

Semester II								
Sl. No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
1.	Lang.1.1	Language - I	AECC	3+1+0	60	40	100	3
2.	Lang.1.2	Language – II	AECC	3+1+0	60	40	100	3
3.	21UMDSC2.7	Financial Accounting and Reporting	DSC	4+0+0	60	40	100	4
4.	21UMDSC2.8	Human Resource Management	DSC	3+0+2	60	40	100	4
5.	21UMDSC2.9	Business Environment	DSC	4+0+0	60	40	100	4
6.	21UMAEC2.4	Environmental studies	AECC	1+0+2	50	50	100	2
7.	21UMOEC2.3	Retail Management	OEC	3+0+0	50	50	100	3
8.		Sports	SEC-VB	0+0+2				1
9.		NCC/NSS/ CULTURAL/R&R.	SEC-VB	0+0+2				1
<b>Subtotal (A)</b>					<b>400</b>	<b>300</b>	<b>700</b>	<b>25</b>



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## III Semester

Semester II								
Sl. No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
1.	Lang.1.1	Language - I	AECC	3+1+0	60	40	100	3
2.	Lang.1.2	Language – II	AECC	3+1+0	60	40	100	3
3.		Elements of Cost Accounting	DSC	4+0+0	60	40	100	4
4.		Organizational Behaviour	DSC	3+0+2	60	40	100	4
5.		Business Statistics	DSC	4+0+0	60	40	100	4
6.		Artificial Intelligence	SEC-SB	1+0+2	50	50	100	2
7.		Retail Management	OEC	3+0+0	50	50	100	3
8.		Sports	SEC-VB	0+0+2				1
9.		NCC/NSS/ CULTURAL/R&R.	SEC-VB	0+0+2				1
<b>Subtotal (A)</b>					<b>400</b>	<b>300</b>	<b>700</b>	<b>25</b>



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## Department Vision, Mission and PO, PSO and COs of all Departments

### Program Outcome-2021-24

PO	Particulars
PO-1	The syllabus is based on interdisciplinary and integrated curriculum with a team based, problem solving and hands on learning environment
PO-2	To provide adequate basic understanding about Management Education among the students.
PO-3	The program aims at developing a student's intellectual ability, executive personality and management skills through an appropriate blending of business and general education.
PO-4	Focuses on training that brings about changes in thinking and behaviour by emphasizing on the fundamental aspects of learning that are crucial for the survival in the challenging and evolving competitive market scenario.
PO-5	To train the students in communication skills effectively & develop organizing & leadership skills by organizing events.
PO-6	To familiarize students with the mechanics of preparation of financial statements, understanding corporate financial statements, their analysis and interpretation.
PO-7	The program will help students to Act with global, ethical, societal, ecological, and commercial awareness expected of practicing management professionals.
PO-8	To train the students to take up marketing, finance, human resource function of various/ different organizations.



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PO-9	The holistic outlook of the program with a number of value based and personality development courses ensures that students are groomed into up-to-date, assertive and effective business executives with strong leadership skills and social consciousness
PO-10	To motivate students to take up higher studies in India & abroad.
PO-11	To develop appropriate entrepreneurship qualities like Manage people, process, and resources within a diverse organization as an individual / as an entrepreneur.
PO-12	At the end of the three-year bachelor's in business administration program, students would gain a thorough grounding in the fundamentals of business management and will be adaptive to the opportunities & challenges of a dynamic environment.



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## Course Outcome-2021-24

### I Semester

### Fundamentals of Accountancy

Sl. No.	Particulars
CO-1: Introduction to accountancy	By the end of this lesson students shall be familiar with definitions, concepts, and objectives of accounting. They will be able to recognize the Indian Accounting standards.
CO-2: Accounting process	By the end of this lesson the student will be able to recognize the process of accounting, different types of accounts. They will be able to classify the accounts, pass journal entries and prepare ledger accounts which enable them to prepare the trial balance.
CO-3: Subsidiary Books	By the end of this lesson student will be able to classify different types of subsidiary books. Will be able to prepare the reconciliation statement considering the differences in cash book & Balances in pass book.
CO-4: Final Accounts of proprietary concern	By the end of this lesson student will be in a position to prepare profit & loss account statement & balance sheet.
CO-5: Experiential learning	By the end of this lesson student will learn how to prepare the subsidiary books, profit & loss account, Balance sheet in spreadsheet.



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## Management Innovation

SL. No.	Particulars
Co-1: Managerial Functions	By the end of this unit the student will be able to understand the functions & principles of management. Difference between administration & management, Managerial skills required to perform.
Co-2: Change Management	By the end of this unit the student will be able to understand change management-process- models of change & types of change.
Co-3: Management Information System	By the end of this unit the student will be able to understand the information system-types of IS & its implication on business.
CO-4: Government and Business	By end of this unit the student will be able to determine the relationship between business & government & vice-versa.
Co-5: Business Intelligence (Bi)	By the end of this unit the student will be able to understand the growth & importance of artificial intelligence.



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## Marketing Management

Sl. No.	Particulars
CO-1: Fundamentals of marketing	This unit will help the students to understand concepts of marketing & marketing environment.
CO-2: Marketing mix & legal aspects of marketing.	This unit will help the students to understand 4 P's of marketing mix & apply them in day to day business. They will be introduced to various legal aspects of marketing like Consumer Protection Act, The Competition Act, Environment protection Act, FSSAI etc.
CO-3: Consumer behaviour	This unit will familiarize the students with Consumer, Customer, consumer behaviour. Decision making process Examine the factors influencing consumer behaviour for better application of marketing tools.
CO-4: Marketing strategy	This unit will help the students to understand the concept of STP. market segmentation & discuss its bases.
CO-5: Market research & Innovation	This unit will help the students to understand the market research & its methods. They will be familiarized with the marketing research tools & techniques like Key Survey, Klout, Kred, Survey Monkey etc. Consumer Engagement Softwares.



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## Digital Fluency

Sl. No.	Particulars
CO-1: Emerging Technologies	This unit will familiarize the students with emerging technologies like AI, Deep learning, Machine learning. Understand the basic aspects of Cyber security & how it safeguards various sectors in the industry. Understand the core concepts of Internet of Things (IoT), discover the skills that are required for IoT and understand how IoT system works.
CO-2: Applications of Emerging Technologies	This unit will familiarize the students with applications of emerging technologies
CO-3: Building Essential Skills Beyond Technology	This unit will help the students to understand the importance of communication skills, critical thinking, Innovative & Design thinking etc.





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## II Semester

### Financial Accounting & Reporting

Sl. No.	Particulars
CO-1: Accounting for departmental undertakings.	The student will be able to Exercise the accounting treatments for departmental undertaking, and the accounting treatments in inter departmental transfers.
CO-2: Branch Accounting.	Students will be able to Demonstrate various accounting treatments for dependent branches
CO-3: Hire Purchase Accounting	This unit will help the students to understand & remember the accounting concepts, tools & techniques of calculation of interest and EMI.
CO-4: Insurance claims for Loss of Stock & Profit	This unit shall help the student to understand the need of fire insurance policy. They will be able to apply these concepts in computation of fire insurance claims.
CO-5: Introduction to IFRS	This unit will help them to understand the Basic Concepts of international Reporting Standards



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## Human Resource Management

Sl. No.	Particulars
CO-1: Introduction to Human resource management	By end of this unit students will be familiarized with the principles, objectives, importance, functions, recent trends of Human Resources Management & Make them understand the importance of human resource & its effective management in organization.
CO-2: Manpower planning	This unit will discuss a basic understanding of human resource planning & its importance. Outline the current theory and practice of recruitment and selection. Discuss sources of recruitment & the advantages and disadvantages of external and internal recruiting
CO-3: Induction, training & Compensation	By end of this unit the students will be able to Develop, analyze and apply advanced training strategies and specifications for the delivery of training programs & Evaluate training programs using appropriate design
CO-4: Performance appraisal	By the end of this unit students will be able to define the concept of performance management and outline its role in contemporary organizations. Explain the importance of performance appraisal in enhancing employee performance. Compare and contrast the different techniques involved in the performance appraisal process. Attrition-types Reasons of attrition
CO-5: Employee Engagement	At the end of unit students will be able to understand the concept of employee engagement & its various models. Like Zinger model.



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## Business Environment

Sl. No.	Particulars
CO-1: Business Environment	At the end of unit students will be able to understand the components of the business environment
CO-2: Government & Legal Environment	Students will be familiarized with the role of government in growth & development of Business. They will understand the role of legal environment in business.
CO-3: Economic & Political environment	This unit will help students to understand various policies of India like Fiscal policy, Monetary policy, EXIM policy, New industrial policy, and their impact on business.
CO-4: Technological & Natural environment	At the end of the unit students will understand the significance of technological environment & its Impact on business. They will also understand the Impact of changes in technology and impact of natural environment on business
CO-5: Global Environment	This unit will help students to examine dimensions of the global environment. Different forms of globalization of businesses



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## III Semester

### Organizational Behaviour

Sl. No.	Particulars
CO-1: Introduction to Organizational behaviour.	This unit will help students to remember the scope & application of OB in management. They will be able to determine various issues on OB.
CO-2: Individual behaviour	This unit will help the students to understand the concept of personality & evaluate its determinants'. This unit will help them to understand perception, its process & examine the factors which influence perception. It will also help them to understand attitude of employees & determine the strategies & barriers to change attitude.
CO-3: Group & team Dynamics	To understand how an individual and group behaviour plays role in organizational work-life and how to manage individual and group behaviour towards organizational effectiveness. It will also help them to understand conflict & its types.
CO-4: Motivation & leadership	This unit will help students to Learn various motivation and leadership theories.
CO-5: Dynamics of organizational behaviour	This unit will help students to understand challenges faced by the organizations and apply strategies while introducing changes in the organization. It will help the students to understand the process & techniques of organizational development



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## Business Statistics

Sl. No.	Particulars
CO-1: Introduction to Statistics	The student will be able to Learn the basic concepts of business Statistics and apply them to create, solve and interpret application problems in business.
CO-2: Tabulation & presentation of data	This unit will help student will be able to present data through different types of tables, graph, charts
CO-3: Measures of central tendencies	This unit will help students to classify between arithmetic & geometric progressions & its application. They will learn Mean, Mode, Median , Standard deviation.
CO-4: Co-relation & Regression	By the end of this unit the student shall be able Interpret the data using correlation and regressions
CO-5: Index number	By the end of this unit students' will be able to to understand changes in data over a period of time through construction of index number



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## Cost Accounting

Sl. No.	Particulars
CO-1: Introduction to cost accounting	This unit will help the students to understand the meaning of cost, costing & cost accounting.
CO-2: Cost Sheet, Tenders & Quotations.	This unit will help the students to prepare cost sheets, tenders, quotations.
CO-3: Material costing	This unit will help the students to understand meaning & types of indirect & direct material. They will be familiarized with different inventory control methods, FIFO, LIFO.
CO-4: Labour costing	This unit will help the students understand timekeeping, ideal time & overtime & also different methods of labour remuneration. They will be able to understand payroll procedures & compute idle and over time
CO-5: Overhead costing	This unit will help the students to understand the classification and allocation of overheads. They will also understand different methods of apportionment of overheads.



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## Department of BCA

### Course Matrix

SUBJECT: Computer Science																	
Semester	Course Code	Title of the Papers	Teaching Hours	Hour/Week		Examination Pattern						Total Marks/Paper	Duration of Exams (Hours)		Credits		
				Theory	Practical	Theory			Practical's				theory	Practical	Theory	Practical	Total
						Max.	IA	Total	Max.	IA	Total						
I	21USDSC1.8	Problem Solving Techniques In C	48	3	2	60	40	100	25	25	50	60	2.5	3	3	2	5
	21USDSC1.9	Data Structures	48	3	2	60	40	100	25	25	50	60	2.5	3	3	2	5
	21USSEC1.4	Office Management Tools	60	3		50	30	20				60	2.5		2		2
II	21USDSC2.7	Computer Architecture	60	3		100	60	40				60	2.5		3		3



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	21USDSC2.8	OOPS Using Java	48	3	2	60	40	100	25	25	50	60	2.5	3	3	2	5
	21USDSC2.9	Database Management Systems	48	3	2	60	40	100	25	25	50	60	2.5	3	3	2	5





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## Department Vision, Mission and PO, PSO and COs of all Departments

### Vision

To give quality individuals to the society as useful resource in nation building

### Mission

Empowering Young Minds to the changing needs



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## Program Educational Objectives (PEOs):

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PEO1: The graduate will Evolve as globally competent computer professionals possessing leadership skills for developing innovative solutions in multidisciplinary domains.

PEO 2: The graduate of the program will be capable to adapt to technological advancements in the emerging areas of computer technology.

PEO 3: Graduates of the program will work as a Computer professional to develop and test Computer Software and Applications using Modern Tools

PEO 4: Graduates of the programme can become entrepreneurs to provide solutions and develop software for enterprise needs.

PEO 5: Graduate of the programme will acquire effective leadership and communication skills to work as a team member.

PEO 6: Graduate will Excel as socially committed individual having high ethical values and work towards betterment of the society



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Program Outcomes	
PO1	To understand the fundamental concepts of computers and programming basics
PO2	To develop competent technical writing skills for effective communication and Analyse and apply latest technologies to solve problems in the areas of computer applications
PO3	Develop Practical skills to provide solutions to IT industry and business
PO4	To design and develop software applications to provide solutions to industry, society and business
PO5	Familiarize students about hardware design, various functional modules of the computer and how they interact to provide processing needs of user
PO6	Bridging the gap between industry requirements and curriculum by providing add on courses and value – added courses
PO7	Use the language skills learnt for effective communication
PO8	Apply contextual knowledge to access societal, health, safety issues
PO9	Have control over effective managerial and finance /banking issues
PO10	Apply professional ethics in day to day life
PO11	Understand environmental issues and lead a life with concerns for environment
PO12	Recognize the need for lifelong learning for continuous enhancement and up gradation of technological changes in society



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## Course Outcomes of BCA

<b>I Semester BCA</b>	
<p><b>Subject Name:</b> Digital Electronics</p>	<p>CO 1: Develop the ability to analyze and design analog electronic circuits using discrete components.</p> <p>CO 2: Acquire a basic knowledge in semiconductor devices and application of diodes,</p> <p>CO 3: Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.</p> <p>CO 4: To understand and examine the structure of various number systems and its application in digital design.</p> <p>CO 5: The ability to understand, analyze and design various combinational and sequential circuits. Develop skill to build, and troubleshoot digital circuits</p>
<p><b>Subject Name:</b> Problem Solving Techniques Using C</p>	<p>CO1: Understanding the basic concepts of programming and gaining knowledge to solve real time applications using top-down approach.</p> <p>CO2: Analysing basic programming statements, memory concepts and tokens through Programming techniques.</p> <p>CO3: Implementing different concepts in developing applications including control structures, arrays, strings, pointers and functions.</p> <p>CO4: Developing advanced applications by using the concepts like files and command line arguments.</p>



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## II Semester BCA

<b>Subject Name:</b> Data Structures Using C	CO 1: Identifying appropriate data structure as required for the problem definition. CO 2: Comparison of performance searching techniques. CO 3: Applying the concepts learned in various domains like DBMS, compiler construction. CO 4: Evaluate algorithms and data structures in terms of time and memory complexity of basic operations. CO 5: Application of stacks, queues and linked list concepts in real-time situation
<b>Subject Name:</b> Database Management System	CO1: Understanding the fundamental concepts of database management and relational data model for an organizational requirements. CO2: Analyze and systematically represent relationships in data records, performing data modelling and normalization. CO3: Usage of Query languages to perform creation and performing different transactions on the Database. CO4: Implementing basic security in database systems.



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## III Semester BCA

<b>Subject Name:</b> Operating Systems	CO 1: Learning the evolution, importance, concepts and structure of an operating system. CO 2: Analysing scheduling algorithms, understanding need for process synchronization and methods of handling deadlocks. CO 3: Understanding efficient resource allocation w.r.t primary memory. CO 4: Understanding file management concepts and evaluating disk scheduling algorithms. CO 5: Getting familiarized with protection and security mechanisms. CO 6: Compare and contrast working of Windows and Unix operating systems
<b>Subject Name:</b> Object Oriented Programming Using C++	CO1: Understanding the basic concepts of Object Oriented Programming and differentiating the traditional structured programming approach. CO2: Evaluating and applying the OOPS concepts through programming. CO3: Implementing the real world object problems using OOPS. CO4: Ability to apply design and development principles in the construction of software systems including embedded systems.



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## IV Semester BCA

<p><b>Subject Name:</b> Operations Research</p>	<p>CO 1: Understanding physical situations and then formulating a mathematical model (LPP) to solve the problem.</p> <p>CO 2: Solve the problem of transporting the products from origins to destinations with least transportation cost.</p> <p>CO 3: Analyze problems that arise in different situation and find an optimal way to assign n objects to other objects in an injective fashion.</p> <p>CO 4: Interpretation of CPM and PERT, project management techniques to plan, schedule and control complex projects.</p> <p>CO 5: Apply decision making rules in Game Theory by using Algebraic and graphical methods</p>
<p><b>Subject Name:</b> Visual Programming</p>	<p>CO 1: Learn to use IDE components and visual environment tools for developing a GUI application.</p> <p>CO 2: Demonstrate the use of events, programming constructs of VB.</p> <p>CO 3: Analysing the use of DLL and windows API in creating user-defined classes in VB.</p> <p>CO 4: Applying ODBC in 3-tier architecture for building a windows-based software product.</p> <p>CO 5: Extending the concepts of object oriented programming to build a GUI interface using VC++</p>
<p><b>Subject Name:</b> Unix Programming</p>	<p>CO 1: Understanding the multiuser operating systems and basic commands and different utilities of the UNIX and usage.</p>



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	<p>CO 2: Implementing the commands, functions and practice with real time applications.</p> <p>CO 3: Knowing the roles of system administrator and controlling the server through commands and providing security to the server.</p> <p>CO 4: Implementation of Shell scripts with Bash shell programming using functions, process communication and Administration.</p>
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<b>V Semester BCA</b>	
<p><b>Subject Name:</b> Software Engineering</p>	<p>CO1: Understanding the definition of software engineering and ethics of software engineers.</p> <p>CO2: Ability to analyze the problem based on software engineer's perspective, gathering the requirements to write SRS.</p> <p>CO3: Implementing to produce architectural design and detail design of the software based on requirements and generate programming code.</p> <p>CO4: To implement validation and verification process through software prototype developed and cost estimation.</p>
<p><b>Subject Name:</b> Computer Architecture</p>	<p>CO 1: To conceptualize the basics of architectural issues of a digital computer and ability to perform computer arithmetic operations.</p> <p>CO 2: To analyze the working of various digital integrated circuits and their digital functions.</p>





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	<p>CO 3: To understand the various data representation formats and learn error detections and correction methods.</p> <p>CO 4: To acquire knowledge on basic computer organization and design of computer.</p> <p>CO 5: To understand central processor organization ,addressing modes ,instruction formats, and various data transfer techniques in digital computer.</p> <p>CO 6: Get acquainted with Input output organization, DMA and input output processor and priority interrupts.</p> <p>CO 7: To analyze performance issues in processor and memory design of a digital computer</p>
<p><b>Subject Name:</b> Data Communications And Networks</p>	<p>CO 1: Understand essential elements of network architecture and computer network technology.</p> <p>CO 2: Familiarity with Data Communications System and its components and the basic protocols of computer networks,</p> <p>CO 3: Identify the different types of network topologies and various protocols &amp; application.</p> <p>CO 4: Enumerate the layers of the OSI model and TCP/IP</p> <p>CO 5: Identify the different types of transmission medias ,network devices and their functions within a network.</p> <p>CO 6: Understand and building the skills of subnetting and how they can be used to assist in network design.</p>



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	CO 7: Explore the different routing mechanisms, congestion control algorithms and their implementation in network operation.
<b>Subject Name:</b> Microprocessor And Alp	CO1: Understanding architecture and operations of 8085 Microprocessor. CO2: Familiarize with Programming model, instruction classification, timing diagrams data transfer, CO3: Applying assembly instructions to write ALP code. CO4: Evaluate Memory and I/O mapping memory interfacing concepts. CO5: Design interfacing techniques with peripherals (I/OS) and applications
<b>Subject Name:</b> Java Programming	CO 1: understanding the basic concepts of OOPS and procedural aspects. CO 2: Designing the programs using classes, sub-classes, loops and recursive functions. CO 3: Developing the knowledge and skills to develop reusable applications. CO 4: Implementing Applet programming and packages for developing web applications.



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## VI Semester BCA

<b>Subject Name:</b> Systems Programming	CO 1: Understand Components of System Software. CO 2: Explore Machine Structure, Machine language and Assembly Language of IBM360 CO 3: Analyze functioning of Assembler. CO 4: Defining and implementing Macros with Macro processor. CO 5: Identify different types of Loaders and their role in effective computing. CO 6: Exploring different phases of Compiler.
<b>Subject Name:</b> Computer Network Security	CO 1: Identify computer and network security threats, classify the threats. CO 2: Encrypt and decrypt data using symmetric key and public-key ciphers. CO 3: Compare classic cryptographic and modern cryptographic techniques. CO 4: Analyze and use cryptographic data integrity algorithms and user authentication protocols. CO 5: Analyze existing authentication and key agreement protocols, identify the weaknesses of these protocols. CO 6: Explore the attacks and controls associated with IP, transport-level, web and E-mail security
<b>Subject Name:</b> Theory Of Computation	CO1: Understanding the efficiency of problem solving on model of computation or calculation using. Algorithms like Turing machine. CO2: Analysing Automata Theory that deals with symbols on the magnetic tapes. CO3: Performance of pushdown automata for knowing the acceptance of the output whether it can be deterministic or non-deterministic. CO4: Application in Automata field using Turing machines.



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<p><b>Subject Name:</b> Web Programming</p>	<p>CO 1: Understanding the basic terminologies of web.</p> <p>CO 2: Learn fundamental skills to maintain web server services required to host a website.</p> <p>CO 3: Analyze and select XHTML elements needed to design a website.</p> <p>CO 4: Creating a browser-compliant, faster and a formatted website using CSS.</p> <p>CO 5: Use scripting languages and web services to transfer data and add interactive components to web pages.</p> <p>CO 6: Apply web concepts to develop a dynamic webpage using JavaScript and DHTML.</p>
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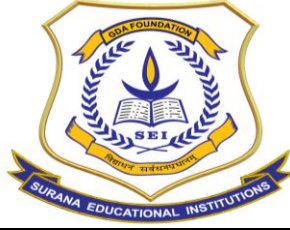
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## Department of Languages

### Department of Kannada

### Course Matrix

Sl. No.	Programs	Semester	Title of the Paper	Teaching hours	Hours Per week	Examination Pattern Max/Min Marks			Duration of Exam	Total marks	Credits
						Theory		I.A			
						Max	Min				
1	BA, BSc, BBA, BCA, Bcom	I	ಕಲಾ ಕನ್ನಡ ವಿಜ್ಞಾನ ಕನ್ನಡ ವ್ಯವಹಾರ ನಿರ್ವಹಣಾ ಕನ್ನಡ ಗಣಕ ಕನ್ನಡ ವಾಣಿಜ್ಯ ಕನ್ನಡ	52-56	4	60	22	40	2.5 Hours	100	3
2	BA, BSc, BBA, BCA, Bcom	II	ಕಲಾ ಕನ್ನಡ ವಿಜ್ಞಾನ ಕನ್ನಡ ವ್ಯವಹಾರ ನಿರ್ವಹಣಾ ಕನ್ನಡ ಗಣಕ ಕನ್ನಡ ವಾಣಿಜ್ಯ ಕನ್ನಡ	52-56	4	60	22	40	2.5 Hours	100	3



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3	BA, BSc, BBA, BCA, Bcom	III	ಕಲಾ ಕನ್ನಡ ವಿಜ್ಞಾನ ಕನ್ನಡ ವ್ಯವಹಾರ ನಿರ್ವಹಣಾ ಕನ್ನಡ ಗಣಕ ಕನ್ನಡ ವಾಣಿಜ್ಯ ಕನ್ನಡ	52-56	4	60	22	40	2.5 Hours	100	3
4	BA, BSc, BBA, BCA, Bcom	IV	ಕಲಾ ಕನ್ನಡ ವಿಜ್ಞಾನ ಕನ್ನಡ ವ್ಯವಹಾರ ನಿರ್ವಹಣಾ ಕನ್ನಡ ಗಣಕ ಕನ್ನಡ ವಾಣಿಜ್ಯ ಕನ್ನಡ	52-56	4	60	22	40	2.5 Hours	100	3



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## Department of Hindi

### Ability Enhancement Compulsory Course

Semester	Course Code	Course	Instruction per week	Duration of Exam	Theory	IA	Total Marks	Credits
I	HIN-BA	Texts: 1 & 2 Prose Media Lekhan	04 Hrs	2.30hrs	60	40	100	03
II	HIN-BA	Texts: 1,2 & 3 • Hindi LaghuUpanyas • Janasancharmadhya m: ( Mass Media), • Sankshepan	04 Hrs	2.30hrs	60	40	100	03
I	HIN-BCOM	Hindi Gadya Ki Vidhnayen :GadyaShikharan” Essay writing: Bank, Bheema, Kar, Sahakaarita	04 Hrs	2.30 hrs	60	40	100	03



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II	HIN-BCOM	Kahani Sangrah :Kahani Sangam” Essay writing: Bankon ka rashtriyakaran, Bharat meinpramukhudyog, Bharat meinkuteerudyog, Mudhraspiti aur bharatiyarthvyavasta. Bharat meinsahakaarikrushhi	O4 Hrs	2.30 hrs	60	40	100	03
I	HIN-BBA	<ul style="list-style-type: none"> <li>Hindi Kahani :“Katha Parcham”</li> <li>Business related letters</li> </ul>	O4 Hrs	2.30hrs	60	40	100	03
II	HIN-BBA	<ul style="list-style-type: none"> <li>Hindi Gadya: “Gadya Kousha”</li> <li>Business related letters</li> </ul>	O4 Hrs	2.30hrs	60	40	100	03
I	HIN-BCA	<ul style="list-style-type: none"> <li>Nibandh Sagar</li> <li>Essay Writing:1.Computerkevi sheshtayen</li> </ul>	O4 Hrs	2.30hrs	60	40	100	03





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		2.Cyber Atanakbaad Ek Chunouti 3.Smart Phone ka mahatv 4.Digital Media <ul style="list-style-type: none"> <li>Sankshepan</li> </ul>						
II	HIN-BCA	<ul style="list-style-type: none"> <li>"Katha Sahitya: Katha Nidhi"</li> <li>Essay: 1)RozgarParakhindi,Filmi Jagath, Vigyapan,Hindi Software,Anuvaad ka mahatv, media lekhan aur usakeprakaar</li> <li>Anuched ka saar</li> </ul>	O4 Hrs	2.30hrs	60	40	100	03
I	HIN-BSC	<ul style="list-style-type: none"> <li>Katha Kusum"</li> <li>Essays: 1. UrjaShankat 2.Kachara Prabandhan Ka</li> </ul>	O4 Hrs	2.30hrs	60	40	100	03



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		<p>Mahatva, (Global Warming) 3.Bhumandaliy ushmikaaran aur upaay.</p> <ul style="list-style-type: none"> <li>• Sankshepan</li> </ul>						
II	HIN-BSC	<ul style="list-style-type: none"> <li>• Kavyaabhishek</li> <li>• Paryaavarana: Arth, prakaar, Kaaran Jal pradushan, vayupradushan, mittipradushanroken e ka upaay</li> <li>• Anuchedsaarlekhan</li> </ul>	04 Hrs	2.30hrs	60	40	100	03



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## Department of Sanskrit

Sl. No.	Semester	Title of the Paper	Teaching hours L+T	Hours Per week	Examination Pattern Max/Min Marks			Duration of Exam	Total marks	Credits
					Theory		I.A			
					Max	Min				
1.	I	Sanskrit Poetry Grammar & Comprehension	52-56	4	60	22	40	2.5 Hours	100	3
2.	II	Sanskrit Prose Literature Grammar & Translation	52-56	4	60	22	40	2.5 Hours	100	3
3.	III	Sanskrit Champu Literature Vijnana/Ayurveda /Natya	52-56	4	60	22	40	2.5 Hours	100	3
4.	IV	Sanskrit Drama & Dramaturgy	52-56	4	60	22	40	2.5 Hours	100	3
5.	I-OE	Sanskrita Bhashaprveshika	52-56	4	60	22	40	2.5 Hours	100	3
6.	II-OE	Vyavaharikasamskritam	52-56	4	60	22	40	2.5 Hours	100	3



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7	III-OE	Kshemakutuhalam	52-56	4	60	22	40	2.5 Hours	100	3
8	IV-OE	Swasthyasamrakshanam and Ayurvedasubhashitas	52-56	4	60	22	40	2.5 Hours	100	3



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Department of Kannada

Department Vision, Mission and PO, PSO and COs of all Departments

## ಕಾಣ್ಕೆ

ನಿನ್ನೆಯ ನೆನಪು ಮಾಸದಂತೆ, ನಾಳೆಯ ಕನಸು  
ಹೊಳೆಯುವಂತೆ, ತರತಮಗಳನ್ನು  
ತೊರೆಯುವಂತೆ, ಸಹಜೀವನ-  
ಸಹಅಧ್ಯಯನಗಳನ್ನು ಪೊರೆಯುವಂತೆ  
ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಮುನ್ನಡೆಸುವುದು ನಮ್ಮ ಕಾಣ್ಕೆ



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## VISION:

*'Sensitize the students to protect our rich cultural heritage, to shun all inequalities, to fulfil future dreams and to promote a meaningful co-existence.'*

## MISSION:

*'Make the language learning more creative, to impart knowledge through Kannada and to equip the students to face the challenges of modernization'.*

## ಗುರಿ

ಕನ್ನಡ ಭಾಷಾ ಕಲಿಕೆಯನ್ನು ಸೃಜನಾತ್ಮಕಗೊಳಿಸಿ,  
ಜಗತ್ತಿನ ಜ್ಞಾನವನ್ನು ಕನ್ನಡದ ಮೂಲಕ  
ಪರಿಚಯಿಸಿ, ಇಂದಿನ ಆಧುನೀಕರಣ ಪ್ರಕ್ರಿಯೆಯಲ್ಲಿ  
ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ತೊಡಗಿಸಿ, ಅವರ ಪ್ರತಿಭೆಯನ್ನು  
ಗುರುತಿಸಿ ಪ್ರೋತ್ಸಾಹಿಸುವುದು ನಮ್ಮ ಗುರಿ



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Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs 1-12)

Sl. No.	Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11	12
1	ಆಂಶ ಅರ್ಜಿಯನ್ನು ಸಿದ್ಧಪಡಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓		✓			✓				
2	ಆಂಶ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.		✓		✓				✓				
3	ಆಂಶ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓		✓		✓					
4	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓	✓			✓					
5	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓	✓			✓	✓	✓			
6	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓		✓				✓	✓				
7	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓			✓		✓					
8	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓				✓		✓			
9	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓	✓	✓			✓	✓				
10	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓	✓			✓		✓		✓			
11	ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು ಮತ್ತು ಅದರಲ್ಲಿ ಅಭ್ಯರ್ಥಿಯನ್ನು ಸೇರಿಸುವುದು.	✓		✓		✓		✓	✓				



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## Department of Hindi

### Department – लक्ष्य

व्यक्तित्व और चरित्र को आकार देना । छात्र समूह को किताबों के परे ज़िदगी के करीब ले जाना ।

### Department Vision - दृष्टिकोण

ज्ञान,कौशल एवं मूल्यों के सामंजस्य के ज़रिये सर्वाधिक स्वीकार्य संस्था बनाना ।

### Department Mission - उद्देश्यपरक वक्तव्य

ज़िदगी के प्रति सकारात्मक रवैया अपनाने के लिए प्रेरित करना





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## Course Outcome-

### **B.A- I SEM**

- C.1. Create interest in reading the story.
- C.2. Ability to write story will be built
- C.3. Gain fluency in using language
- C.4. Expert in business management
- C.5. Proficiency in writing business letter

### **B.COM- I SEM**

- C.1. Will be familiar with different genres of Hindi prose
- C.2. Prose study will generate interest in creative thinking and writing.
- C.3. Develops critical and analytical thinking skills.
- C.4. develops writing skills and teaches something new.
- C.5. Students will be updated with current affairs.



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## **B.B.A.- I SEM**

- C.1. Create interest in reading the story.
- C.2. Ability to write story will be built
- C.3. Gain fluency in using language
- C.4. Expert in business management
- C.5. Proficiency in writing business letter

## **B.C.A.- I SEM**

- C.1. Create interest in reading the story.
- C.2. Ability to write story will be built
- C.3. Gain fluency in using language
- C.4. Expert in business management
- C.5. Proficiency in writing business letter



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## **B.SC.- I SEM**

- C.1. Create interest in reading the story.
- C.2. Ability to write story will be built
- C.3. Gain fluency in using language
- C.4. Expert in business management
- C.5. Proficiency in writing business letter

## **B.A- II SEM**

- C.1. To develop the ability to write a story based on the elements of the novel
- C.2. Develop the ability to express creative thoughts & feelings.
- C.3. To Build understanding of the objective nature of Hindi.

## **B.COM- II SEM**

- C.1. To build the ability to understand Hindi stories.
- C.2. Build story reading & writing skills
- C.3. To give information about various literary genres.
- C.4. Gaining the knowledge of media writing



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C.5. Getting qualified in social media writing

## **B.B.A.- II SEM**

C.1. Acquaint the different genre of Hindi language to the students

C.2. Getting acquainted with Hindi writers

C.3. Familiarize from local to Pan India literature

C.4. Develop language skills

C.5. Correct knowledge of pronunciation & skills

C.6. Occupational skills will be trained among students for suitable employment

## **B.C.A.- II SEM**

C.1. To acquire the ability to create a story based on the elements of the story.

C.2. Information related to Hindi fiction literature can be obtained.

C.3. Occupational skills will be trained among students for suitable employment.

C.4. To develop attitude towards human values.

C.5. To build a sensitivity towards the society & community



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## B.SC.- II SEM

C.1 To develop the ability to compose poems based on the elements of poetry

C.2 Acquainted with literary-poetry discussion

C.3 To develop the ability to read and understand the couplets and poems of saints of different eras of Hindi literature.

C.4 To give information about various literary genres.

C.5 Practice of Translation



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## Department of Sanskrit

1. **Department Vision** –संस्कृतवाङ्मयसम्पदः आविष्करणं, तद्वारा युवमनस्सु भारतीयसंस्कृतेः वैशिष्ट्यप्रतिपादनम् ।
2. **Mission**-संस्कृतभाषायाः साम्प्रतिकत्वप्रतिपादनम् -१. संस्कृतसाहित्यविषये सहृदयतायाः उद्भावनम् । २. व्यवहारभाषात्वेन संस्कृतस्य आनयन्म् । ३. संस्कृते उत्कृष्टतायाः सम्पादनम् ।



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## Course Outcome-

### BA-I Sem

1. Enhancement of passion about the Samskrit poem literature.
2. Extensive information about Maharshi Valmiki and Ramayanam.
3. Special knowledge about Samskrit literature and grammar.

### B.Sc-I Sem

1. Enhancement of passion about the Samskrit poem literature and Vyasamaharshi and Mahabharatam.
2. Extensive information about and Mahakavi Bharavi and Kiratarjuniyam
3. Special knowledge about Samskrit literature and grammar.

### B.Com- I Sem

1. Enhancement of passion about the Samskrit poem literature, Vyasamaharshi and Mahabharatam.
2. Extensive information about Yayati Upakhyanam.
3. Special knowledge about Samskrit literature and grammar.



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## **BBA-I Sem**

1. Enhancement of passion about the Samskrit poem literature and Maharshi Valmiki and Ramayanam.
2. Extensive information about Mahakavi Kalidasa and Raghuvamshamahakaavyam.
3. Special knowledge about Samskrit literature and grammar.

## **BCA-I Sem**

1. Enhancement of passion about the Samskrit poem literature.
2. Extensive information about Mahakavi Ashwaghosha and Buddhacharitam.
3. Special knowledge about Samskrit literature and grammar.

## **Open Elective-I Sem**

1. Introduction to Samskrit alphabets.
2. Knowledge about Reading, writing and speaking in Samskrit.
3. Introduction to Samskrit literature.

## **BA-II Sem**

1. Enhancement of passion about the Samskrit prose and story literature.
2. Extensive information about Vishnusharma and Panchatantra.





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3. Special knowledge about Samskrit literature, grammar and translation.

## **BSc-II Sem**

1. Enhancement of passion about the Samskrit prose and story literature.

2. Extensive information about Banabhatta and Kadambari.

3. Special knowledge about Samskrit literature, grammar and translation.

## **BCom-II Sem**

1. Enhancement of passion about the Samskrit prose and story literature.

2. Extensive information about Banabhatta and Harshacharitam.

3. Special knowledge about Samskrit literature, grammar and translation.

## **BBA-II Sem**

1. Enhancement of passion about the Samskrit prose and story literature.

2. Extensive information about Narayanapandita and Hitopadesha.

3. Special knowledge about Samskrit literature, grammar and translation.



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## BCA-II Sem

1. Enhancement of passion about the Samskrit prose and story literature.
2. Extensive information about Gunadhya and Vetalapanchavimshati.
3. Special knowledge about Samskrit literature, grammar and translation.

## Open Elective-II Sem

1. Special knowledge about Reading, writing and speaking in Samskrit.
2. Skill development through introduction to Samskrit alphabets.
3. Reading and writing skills, Sapta prashnavachaka.
2. Special knowledge about Samskrit literature and grammar.



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## Department of M.Com

### Course Matrix

#### Vision

“To be the prominent accounting and finance program providing well trained, conversant and vibrant professionals and persuasive solutions to the industry.”

#### Mission

“To cultivate creative ability in the students for candid innovative accounting and financial solutions and provide them with the assistances and training necessary to adapt and to excel in accounting and financial services at the workplace”.



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## Programme Objectives

PO1. Commerce knowledge: Apply the knowledge of accounts, taxes, management fundamentals and corporate practices to find the solution for problems in business and commerce.

PO2. Problem analysis: Identify, formulate, review research literature, and analyze complex business problems reaching substantiated conclusions using principles and practices of accountancy and general management techniques.

PO3. Design solutions: Analysis the business problems with its environment and designing a framework of solution. Determining the efficient and effective way of cost control and reduction in business operations.

PO4. Conduct investigations: Updated knowledge on research methods, techniques and the process and to develop skills in the application of research methods for business problem solving.

PO5. Applications: Application of various statistical tools in solving complex business problems.

PO 6.Team Work: Build a team spirit among the students and encourage them to function as an individual as well as a team member in diverse teams, and in multidisciplinary settings.

PO 7. Effective Communication: Communicate effectively on current business issues and scenario to the students and conduct activities and workshop to enhance practical knowledge to students about corporate and business environment. .



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PO 8. Social Interaction : Understand the impact of the management and commerce like account and taxes practices in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 9. Management Effective Finance: Application of strategies in their job/work by the contextual knowledge to various accounting and finance concepts. And also to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional business practice.

PO 10. Ethics: Educate students about business ethics and ethical principles. Encourage students to be committed to their work and to follow professional ethics, responsibilities and norms of the job/ work and the society in large.

PO 11.Environment And Sustainability: Demonstrate knowledge and understanding of the commerce and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. This leads to sustainable growth and progress of enterprise as well as society.

PO 12. Life-long learning: Update with the current affairs of business market. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of business environment.



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## Programme Specific Objectives

At the end of the program, the student:

PSO1. Student should be able to clearly understand the concepts and applications of tools and techniques in the field of accounting and finance.

PSO2. Should be able to associate the learning's from the course related subjects like Micro finance, Banking operations and management, Forex management and strategic cost management, Taxation in his/her job and to arrive at solutions to real world problems.

PSO3. Should have the capability to analyze and interpret the business related issues and problems.

PSO4. Should possess the skills to communicate and demonstrate the practice of professional ethics and the concerns for societal and environmental wellbeing.



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## Course Objectives of M.Com

### I Semester

	<b>Subject:</b>	<b>1.1 Monetary System</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction & Invention of Money, Meaning, Definition, Evolution: Stages (Barter System to Bitcoin), Characteristics, Functions, Approaches, Types of Money, Role of Money, Importance of Money, Evils of Money, Money and Near Money, Time Value of Money, Circular Flow of Money – Sectors. Theories of Value of Money - Quantity Theory of Money: Fisher's Transaction Approach & Cambridge Cash Balance Theory, Income Theory of Money, Liquidity Theory of Money, Friedman's Restatement of the Quantity Theory of Money, Keynesian Theory of Money, Modern Monetary Theory.	To able to understand nature, scope & importance of monetary policy and theories
Module – 2:	Monetary Standards: Meaning & Definition, History, Gresham's Law, Types of Monetary Standards: Monometalism, Bimetallism, Paper Currency and Virtual Currency: Features, Types, Reforms, Pros & Cons. Gold Standard: Meaning, Types, Features, Functions, Pros & Cons, Domestic and International Gold Standards, Working of Gold Standard: Conditions, Qualities of Good Monetary System. Introduction to Paper Currency Standard: Meaning & Definition, Principles of Note Issue, Right of Note Issue, Method of Note Issue, Essentials of Sound Currency System.	To able to understand international fiscal federalism



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	Introduction to SDR or Paper Gold: Meaning & Definition, Features, Role of SDR, Working of SDR, Basket of Currencies, IMF Quota - SDR, SDR allocations & Interest Rate.	
Module – 3:	International monetary system – Evaluation of International monetary system, Bi – metallion; – classical gold standard – interwar period Bretton woods system – The flexible exchange rate – current exchange rate regime – fixed vs flexible exchange rates.	To able to understand taxation & public debt of India
Module – 4:	International financial system: Introduction – role of financial markets - participants – elements – forex market – Euro currency market – Euro bond market – forward and future markets for foreign exchange	To able to understand various theories of demand for money.
Module – 5:	Balance of payment – Balance of Trade, Equilibrium in BOP – Devaluation and Depreciation; Current and Capital account convertibility – Recent development in foreign capital flows.	To able to understand concept of poverty & development





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	<b>Subject:</b>	<b>1.2 International Business Environment</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1	International Business & Environment: Importance, nature and scope of International business; Modes of entry into International Business; globalization process and managerial implications; multinational corporations and their involvement in global Business: Issues in foreign investments, technology transfer, pricing and regulations. Introduction to Economic environment – political and regulatory environment – demographic environment – social, cultural and technological environment.	To able to understand structure of international environment.
Module – 2	International Economic Environment: Regional integration and trade blocks – Types of integration – theory of customs union, European union – regional groupings – integration of developing countries – ASEAN ,SAARC, SAPTA, global commodity agreements – quota agreements – Cartels – Bi-lateral & Multi-lateral contracts– Economic institutions – International Monetary Funds (IMF) – World Bank, Asian Development Bank, UNCTAD, UNIDO, International Trade Centre, WTO, GATS, TRIM, TRIPS.	To able to understand the theory of regional blocks
Module – 3	International Trade and Investment Environment: Government Influence on Trade: Trade in merchandise – Trade in services – Global sourcing – degree of dependence –	To able to understand gains from international trade & their measurements



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	<p>balance of payments – trade and BOP of India. Cultural contacts of global management – Understanding the role of culture – communicating across cultures – cross cultural negotiations and decision making. Types and significance of foreign investments – factors affecting global investment – growth and dispersion of FDI – cross border mergers and acquisitions – foreign investment in India – The New Policy – EURO/ADR issues – M &amp; A – Indian companies going global.</p>	
Module – 4	<p>Multi National Corporation: Definition and Meaning – Importance and dominance of MNCs – Code of conduct – MNCs in India Transnational Companies and Global Companies–Their nature, Transfer of Technology – global competitiveness – indicators of competitiveness - competitive advantage of nations – Technology and Global competitiveness. global Operations – Global supply chain management – global manufacturing strategies – factors affecting global HRM and staffing policy – global negotiations – global asset protection –Protection of IPRs.</p>	To able to understand the working of MNCs
Module - 5	<p>Social Responsibilities and Ethics: Social Responsibilities and Ethics, MNE Social Responsibilities – philanthropic Responsibility, Ethical Responsibility, Legal Responsibility, Economic Responsibility, Foreign Corrupt Practices Act, Cases.</p>	To able to understand the role of ethics in international business



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	<b>Subject:</b>	<b>1.3 Principles And Practices Of Business Decisions</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1	Introduction to economics, macroeconomics, and its interface with business and industry. Resources and goals of an economic systems, free market and mixed economy. National income and product concept, computation of national income and related aggregates, problems in computation of national income.	To able to understand macro-economic analysis and able to understand of national income
Module – 2	Public Financial Policy: Public Finance branches – Principle of maximum social advantages – Sources of public revenue – canons of taxation – direct and indirect taxes – impact and incidence – effects of taxation on production, consumption and distribution side of economy – recent policy changes in direct and indirect – public expenditure – causes for growth – effects of public expenditure – public debt – sources of public borrowing – methods of debt redemption – debt trap - budget – types and deficit.	To able to understand public finance and budgets.



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<p>Module – 3</p>	<p>Individual and market demand functions; Law of demand, determinants of demand; Elasticity of demand – its meaning and importance; price elasticity, income elasticity and cross elasticity – Using elasticity in managerial decisions; numerical problems and case studies. Introduction to Consumer Choice, Sovereignty, Cardinal and ordinal utility approach, indifference approach, revealed preference and theory of consumer choice under risk, Demand estimation for major consumer durable and non-durable products. Demand forecasting techniques; numerical problems and case studies.</p>	<p>Able to understand demand analysis and consumer choice</p>
<p>Module – 4</p>	<p>Production function – production with one and two variable inputs, Stages of production; Economies of scale; Estimation of production function; cost theory and estimation; Economic value analysis; Short and long run cost functions – their nature, shape and inter-relationship; Law of returns to scale; numerical problems and case studies.</p>	<p>To able to understand the theory of production function</p>



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Module-5	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. Impact of pricing on business decisions.	To able to understand different types of pricing strategies
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	<b>Subject:</b>	<b>1.4 Information Technology For Business</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1	<p>Introduction to E-Commerce: Introduction, E-Commerce – Definition, History of Ecommerce, Online Extension of a BAM Model, Transition to E-Commerce in India, E-Commerce v/s Traditional Commerce, E - Commerce v/s E - Business.</p> <p>Electronic Commerce – Cutting Edge Technologies, Strengths, Weakness, Opportunities and Challenges of E-Commerce, Components of E-Business, E-Commerce Business models – B2C, B2B, C2B, C2C, B2G, C2G, Brokerage, Advertising, Infomediary, Merchant, Manufacturer (Direct), Affiliate, Community, Subscription, Utility.</p> <p>Ecommerce Business Revenue Models &amp; Types, Impact of E-Commerce on business, Successful Business Models in India.</p>	<p>Able to understand different E-commerce models</p>



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Module – 2	<p>Web Servers – Browsers – Server Software – Web Authoring Tools - Database System - World Wide Web – Domain Name – Hardware requirements, Brief on Shopping Cart, Point of Sale, Wireless Payment Device, Strategies for Web Auction, Virtual Communities, Web Portal. Electronic Retailing and Malls. electronic Shopping - Process, Electronic Catalogues, Interactive Advertising and Marketing.</p>	<p>Able to understand Hardware and Software requirements for E-Business</p>
Module – 3	<p>Introduction to Internet Security – Secure Transactions – Computer Monitoring – Privacy Issues – Privacy on the Internet – Cyber Crimes &amp; Types, Recent Cyber Attacks, Major types of Security Problems/Common Threats – E-Commerce and Security – Security for Internet Trading – Electronic Security Challenges. Introduction to Encryption: Elements &amp; Methods of Encryption, Secret key, Private &amp; Public key, Digital Signature, Digital Certificates. Modern Cryptography: Types, Tools &amp; Applications, VPNs, SSL Protocol, Firewalls.</p>	<p>An understanding of Privacy &amp; Security Threats &amp; Protections</p>
Module – 4	<p>IT Act of 2000 (Amendment in 2008 &amp; 2018): Introduction to Cyber Laws, Evolution &amp; Need of</p>	<p>Develop an understanding of IT ACT.</p>



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	<p>Cyber Laws, Internet Frauds, Features, Objectives, Applicability &amp; Non-applicability, Sections of IT Act ((Amendment) Act, 2018.), Section 43(A) (SPDI – Sensitive Personal Data), ISO 27001 guidelines, How to prevent Cyber Crimes? Some Pioneering Indian Case Studies, E-Transition Challenges for Indian Companies.</p>	
Module – 5	<p>Electronic Data Interchange (EDI): Meaning &amp; Definition, History &amp; Evolution, Uses, EDI Standards, EDI Working Concept, Implementation difficulties of EDI, Financial EDI, EDI and Internet, EDI services, ANSI X12 and EDIFACT.</p>	<p>Develop an understanding the working of EDI</p>





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	<b>Subject:</b>	<b>1.5 Managerial Finance</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Finance: Concept, Meaning, Principles & Types of Finance, Functions of Finance, Financing Decisions, Factors influencing Financial Decisions, Objectives of Corporate Financial Decisions. Introduction to Financial Management, Meaning & Definition, Evolution, Scope, Methods, Importance, Functional areas of Modern Financial Management, Financial Management Process. Planning and Policy; Approaches to Capital Structure: Net Income Approach, Net Operating Income Approach, The Traditional approach, Modigliani & Miller Approach - Concept & Problems. Optimal Capital Structure: Meaning & Concept, Trade-Off-Theory v/s Pecking Order Theory, EBIT – EPS Approach – Concept & Problems.	To acquire knowledge about different capital structure approaches
Module – 2:	Introduction to Investment Decisions: Meaning, Need and Factors, Efficient Investment Analysis. Introduction to Capital Budgeting Decisions – Meaning, Features, Process and Factors, Capital Budgeting Techniques: Traditional and Modern Techniques, Varying Opportunity Cost of Capital, NPV v/s IRR, Incremental IRR, Modified Internal Rate of Return (MIRR) – Concept, Evaluation Criteria & Problems, Fisher's Rate and Aggregate Capital Needs in Investment Decisions, Project Selection under Capital Rationing: Meaning, Types, Pros & Cons, Problems on	To analyse net present value (NPV), internal rate of return (IRR), profitability index (PI), and Payback Period (PP) of a single capital project and describe the capital budgeting process of a company.



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	Divisible & Indivisible Projects, Multi-Period Capital Rationing, Capital Budgeting under Inflationary Conditions.	
Module – 3:	Risk Analysis in Capital Budgeting – Meaning, Analysis of Risk and Uncertainty, Sources and Perspectives of Risk, Measurement of Risk, Nature of Risk in Capital Budgeting Decisions, Techniques for Risk Analysis: Risk Adjusted Discount Rate, Certainty Equivalent Method, Sensitivity Analysis, Scenario Analysis, Simulation Analysis, Hiller Model, Break-Even Analysis, Corporate Risk Analysis, Decision Tree Analysis – Sequential Investment Decisions, Market Risk Analysis – Concept & Problems, Backward Induction Method, Utility Theory and Capital Budgeting.	To analyse risk-in capital budgeting using various techniques
Module – 4:	Introduction to Corporate Restructuring: Mergers, Acquisitions, Takeovers, Spinoff, Synergies, Strategic Alliance, Joint Venture, Leveraged Buyouts, Management Buyouts (MBO) & Buy-in (MBI), Franchising, Intellectual Property Rights (IPRs), Sell-off, Demerger, Disinvestment v/s Divestment, Slump Sale, Reverse Merger, Equity Carveout – Concept & Types. Valuation under M&A: Discounted Cash Flow Method (DCF), Price-Earnings Ratio (P/E Ratio), EPS Approach, Enterprise-Value-to-Sales Ratio (EV/Sales), Replacement Cost Method – Concept & Problems.	Able to understand corporate restructuring and valuation using various tools
Module – 5:	Introduction to Dividend Decisions, Meaning & Definition, Forms of Dividend, Types of Dividend Policy, Significance of Dividend,	Able to understand various models of dividend decision



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	<p>Impact of Dividend Policy on Company, Factors affecting Dividend Policy, Dividend Decision Theories – Walter's Model, Gordon's Model, MM Theory – Concept, Assumptions, Formula, Criticisms &amp; Problems. Introduction to Working Capital, Meaning &amp; Definition, Types of Working Capital, Significance of Adequate Working Capital – Evils of Excess or Inadequate Working Capital – Determinants of Working Capital – Sources of Working Capital, Techniques.</p>	<p>and techniques of working capital.</p>
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	<b>Subject:</b>	<b>1.6 Global Talent Management</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Talent Management: Introduction, Talent Management – Overview, Talent Management – History, Scope of Talent Management, Need of Talent Management, Key Processes of Talent Management, Talent vs knowledge people, Source of Talent Management, Consequences of Failure in Managing Talent, Tools for Managing Talent, Building Blocks of Effective Talent Management System, Life Cycle of Talent Management ,Role of HR in Talent Management, Compensation and reward strategies for Effective Talent Management, Human Capital- Meaning, Definition and Characteristics.	To understand the knowledge and skills needed to effectively manage talent.
Module – 2:	Talent Planning: Objectives of Talent Planning, Steps in Strategic Talent Planning, Succession Planning Program, Innovative talent planning, Current Industry Practices for Strategic Talent Planning, Ensuring Leadership Talent Acquisition: Introduction, Talent Acquisition, Recruiting Process, Strategic Trends in Talent Acquisition, Talent acquisition management solutions	To understand and implement talent planning and acquisition.



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Module – 3:	Talent Engagement and Retention: Introduction, Concept of Talent Engagement, Retention, Employee Engagement and Retention, the Race for Talent: Retaining and Engaging Workers, Best Practices for Talent Engagement, Improving Employee Retention	To Research and design talent engagement and retention strategies
Module-4:	Information Technology and HR Analytics in Talent Management: Introduction, Role of Information Technology in Talent Management Systems, Talent Management Information System, Creating Business Value through Information Technology, Five Steps to a Talent Management Information Strategy, HR Analytics for TM Processes, Design Development through Rapid Prototyping and Scaling, Implementation and Maintenance, Audit and Update.	To Demonstrate role of IT & analytics in human resource management & talent management.
Module-5:	Contemporary Talent Management Issues, Challenges, Best Practices and Innovation: Introduction, Organisational Issues, Talent Management Challenges, Best Practices of Talent Management, Talent Management in India, AI applications in Human Resource Management Practices, E-Frauds in Talent Acquisition, Development, Utilization and Separation.	To understand the current issues and practices in the area of talent management.



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	<b>Subject:</b>	<b>1.7 (Soft Core) Corporate Communication Skills</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	<p>Introduction to Corporate Communication</p> <p>Nature of Corporate Communication, Advantages of Corporate Communication, Corporate Communication for Managerial Functions, Networked Communications, Meta Communications system in Organization. Formal and Informal Communications in Organizations, Cost of poor Decisions and Communication gap. Importance of Corporate communication for value creation , Communication mechanism with stake holders- Corporate liasoning, The Role of C-Suite executives in Corporate Communication and Decisions.</p>	<p>To familiarize the students with corporate communication.</p>
Module – 2:	<p>Public Speaking: Characteristics of effective speech, voice quality, rate of speaking, clear articulation, eye contact, use of expressions, and gestures and posture; Types of managerial speeches: speech of introduction, speech of vote of thanks, occasional speech, theme speech, formal speeches during meetings, Role of Public speaking for better navigation by executives and Managers in Organizational Hierarchy, Public speaking for developing leadership skills, Trouble shooters and corporate communications.</p>	<p>To understand different types of speeches and develop public speaking skill.</p>



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<p>Module – 3:</p>	<p>Soft skills: How communication skills and soft skills are inter-related, Body language-posture, eye-contact, handling hand movements, gait - Voice and tone, Meeting and Boardroom Etiquettes - Guidelines for planning a meeting, Before the meeting, On the day of the Meeting, Guidelines for Attending the meeting, For the Chairperson, For attendees, For Presenters, Telephone Etiquette, Cell phone etiquette, Telephone etiquette guidelines, Mastering the telephone courtesy, Active listening, Putting callers on hold, Transferring a call, Screening calls, Taking a message, Voice Mail, Closing the call, When Making calls, Closing the call, Handling rude or impatient clients, Cross-cultural communication, cultural sensitivity, Cross-cultural issues which affect Communication across different Cultures, Culture and non-verbal communication, Effective intercultural communication, Business and social etiquette.</p>	<p>To develop constructive and functional communication skills.</p>
<p>Module – 4:</p>	<p>Presentation skills of Executives and Employees: Principles of Effective presentations, Planning, Structure and Delivery, Principles governing the use of Audio-visual media, Time management - Slide design and transition: representation of textual information into visuals for effectiveness of communication - Style and persuasiveness of the message - Adherence to the number of slides, Dynamics of group presentation and individual presentation.</p>	<p>To develop efficacious and productive presentation skills.</p>





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Module – 5:	Technology in Corporate Communication: Web /video conferencing, tele-meeting. Virtual Meeting Mechanisms- etiquette, personation skills, Work from home communications, E-Training and performance appraisal Physical Appearance; Communication Style; Content of Communication, Emerging Trends in Virtual Communication.	To evaluate the usage of technological aide in communication.
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## II Sem

	<b>Subject:</b>	<b>2.1 Indian Banking</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module 1:	<p>Introduction to Indian Banking: Introduction to Indian Banking: Phases of Indian Banking System, Introduction on SBI, Nationalized Banks, Private Banks, Local Area Banks, Small Finance Banks, Payment Banks, Foreign Banks, Cooperative Banks and Regional Rural Banks: Features, Functions &amp; Objectives. Acts: Banking Regulation Act, 1949, Deposit Insurance and Credit Guarantee Corporation Act 1961, The Securitization and Reconstruction of Financial Assets and Enforcement of Securities Interest Act, 2002 (SARFAESI Act), Prevention of Money Laundering Act 2002, Banking Ombudsman Scheme – Introduction &amp; Concept. Major Reforms in Banking Sector in India.</p>	<p>To expose the students to Indian Banking System along with the latest reforms in Banking.</p>



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<p>Module 2:</p>	<p>Reserve Bank of India: Reserve Bank of India: History, Key Landmarks, Objectives, Organization Structure, Functions, recent measures by RBI. Introduction to Monetary Policy: Techniques of Monetary Policy – Qualitative &amp; Quantitative (CRR, SLR, Repo, Reverse Repo, Bank Rate, MSF Rate, MCLR Rate, Liquidity Adjustment Facility, Open Market Operations, Marginal Stability Scheme), Monetary Policy and Indian Economy.</p>	<p>To able to understand working &amp; operation of RBI</p>
<p>Module 3:</p>	<p>Non-Performing Asset (NPA): Introduction to NPA: Meaning &amp; Definition, Identification of NPA, Asset Classification &amp; Guidelines by RBI, Provisioning – Asset Classification, Causes for NPA, Effects of NPA, Impact of NPA on Balance Sheet, Balance Sheet Cleaning, Monitoring of NPA, Measures to overcome NPA, Writing off of NPAs, NPA Management. NPA norms by RBI. IRAC Norms (i.e., Income Recognition and Asset Classification norms), Debt Recovery Tribunals, Wellful Defaulters, Introduction to Credit Information Bureau (India) Limited (CIBIL), Insolvency and Bankruptcy Code (IBC), 2016.</p>	<p>To able to understand the concepts of income recognition and NPA and its management.</p>
<p>Module 4:</p>	<p>BASEL Norms: Introduction to BASEL, History of BASEL, BASEL: I, II and III – Objectives, Framework, Challenges, Pillars and Impact. BASEL Norms – Guidelines by RBI. Recession and Indian Banking Sector.</p>	<p>To understand the international norms governing the risk management in banking.</p>



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Module 5:	Asset & Liability Management: Introduction, Meaning & Definition, Types and Characteristics of Assets & Liabilities, ALM Strategies, Risk Management Concepts, VAR Analysis, Back-testing and Stress Test for Banks, E-Frauds in banking System – Challenges and Solutions.	To able to understand and evaluate different ALM strategies and techniques.
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	<b>Subject:</b>	<b>2.2 Risk Management &amp; Derivatives</b>	
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>	
Module 1:	Introduction to Risks: Meaning, Definition, Evolution, Types, Classification, Sources, Scope, Challenges of Risks to Business. Introduction to Risk Management: Meaning & Definition, Steps in Risk Management, Objectives, Process, Role of Risk Management in Business & Finance - Risk Management Techniques, Risk and Uncertainty, Perils, Causes and Risk Covers. Risk Management Practices in Business, Insurance, Banks and Finance, Concept of Agri Risk Management.	To understand the different types of Risk associate in business and in another sector	
Module 2:	Credit Risk Management: Credit Risk and Risk Management Models: Introduction to Credit Risk, Meaning & Definition, Sources, Components, Classification of Credit Risk, Factors affecting Credit Risk. Introduction to Credit Risk Management – Meaning, Principles, Prudential Norms, Process, Tools of Credit Risk Management, Functionality of Good Credit. Concept & Problems on Credit Risk Management Models: Altman’s Z Score Model, VAR Model, Credit Metrics Model, Credit Risk Rating Model, Credit Risk Score by CIBIL – Mechanism.	To analyse and apply the different models in credit risk management	
Module 3:	Market Risk & Operations Risk: Introduction to Market Risk: Meaning & Definition, Types, Yield Curve & Types. Introduction to (Value at Risk) VAR Model: Meaning & Definition, Why VAR? Calculation of VAR, Pros	To understand the types of market and operational	



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	<p>&amp; Cons of VAR, Methods of VAR – Historical Simulation, Model Building Approach, Linear Approach, Quadratic Model, Monte Carlo Simulation, Concept &amp; Problems. Introduction to Operations Risk Management (ORM): Meaning &amp; Definition, Features, Types &amp; Causes of Operations Risk, ORM Process, Why ORM? Risk Modelling Methods, 5M Model – Concept.</p>	<p>risks and models to analyze them.</p>
<p>Module 4:</p>	<p>Basics of Derivatives: Introduction to Derivatives, Evolution of Derivatives, Meaning &amp; Definition, Characteristics, Functions, Participants, Economic Benefits of Derivatives, Factor Contributing to the growth of Derivatives Market in India, Types of Derivatives – Concept, Meaning &amp; Definition. Recent Trends in Derivatives.</p>	<p>To Understand derivative in detail such as forward and future</p>
<p>Module 5:</p>	<p>futures, Options &amp; Swaps: Introduction to Futures Market: Meaning &amp; Definition, Evolution, Types, Features, Terminologies, Pros &amp; Cons, Forwards v/s Futures, Margin &amp; Types of Margin, Mark to Market – Concept &amp; Problems, Cost of Carry Model – Concept &amp; Problems, Clearing &amp; Settlement of Future Contract. Introduction to Options Contract: Meaning &amp; Definition, Evolution, Types, Features, Terminologies, Pros &amp; Cons, Futures v/s Options, Option Valuation: Binomial Option Pricing Model – Concept &amp; Problems. Introduction to Swaps: Meaning &amp; Definition, Types, Features, Pricing of Swaps: Concept &amp; Problems.</p>	<p>To Understand of option pricing models, Swaps and Hedging techniques</p>



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	<b>Subject:</b>	<b>2.3 Advanced Research Methodology</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
<b>Module 1</b>	Introduction to Research: Introduction to Research: Meaning, Characteristics, Objectives, Motivation in Research, Types, Methods, Significance, Process, Approaches, Criteria of Good Research. Concept of Theory, Empiricism, Deductive and Inductive Theory. Introduction to Ethics in Research, Plagiarism, Limitations and Ethical Issues in Research, Software for Detection of Plagiarism, Plagiarism level in National and International Publications, Problems encountered by researchers in India.	To understand various concepts of research and its importance.
<b>Module 2</b>	Research Topic & Research Design: Selecting a Topic for Research, Types of Research Problems in Social Science, Components & Sources of Research Problem, Techniques involved in Defining Problem, Definition of Problem and Evaluating Problem, Review of Literature: Need, Purpose & Note Taking, Research Gap Identification. Introduction to Research Design: Meaning, Need & Importance, Types & Uses of Research Design, Features of Good Research Design, Types of Research Design – Concept, Pros & Cons. Qualitative, Quantitative and Mixed Research Designs, Steps in Sample Design, Complex Random Sample Designs, Variables in Research: Introduction, Meaning, Types.	To identify research topic and develop a suitable research design.



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<p>Module 3</p>	<p>Scales of Measurement &amp; Data Processing: Scales of Measurement: Types of Data Measurement Scale, Techniques of Data Scaling, Goodness of Measurement Scales, Deciding the Scale, Validating the Scale. Data Processing: Processing and Distribution - Field Work Validation - Tabulation - Editing - Coding - Classification and Tabulation of Data – Presentation - Graphical Representation. Reliability and Validity: Meaning, Types and Need. Sources of Data: Primary and Secondary Sources – Qualitative and Quantitative Methods of Data Collection, Constructing Questionnaire, Standardized Questionnaire, Questionnaire v/s Schedules.</p>	<p>To understand and classify different techniques of measurement scales and processing of data.</p>
<p>Module 4</p>	<p>Sampling &amp; Hypothesis: Introduction to Sampling: Concepts of Population, Sample, Sampling Frame, Sampling Error, Sample Size, Characteristics of a good sample, Types of Sampling - Probability and Non-Probability, Determining Size of the Sample, Sample v/s Census, Introduction to Hypothesis: Meaning, Concepts &amp; Types. Type I and Type II Errors, Level of Significance, Testing of Hypotheses: Concepts, Steps in Testing of Hypothesis, P – Value Approach.</p>	<p>To explain and select an appropriate sampling design and hypothesis development.</p>





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Module 5	<p>Statistical Tests &amp; Software's: Univariate and Multivariate Data Analysis, Descriptive vs Inferential Analysis - Descriptive Analysis of Univariate Data and Bivariate Data, Parametric and Non-Parametric Tests, Correlation Analysis, Multiple regression analysis, t-Test, Z-Test, F-Test, Chi-Square, ANOVA and Econometrics Model – Concept &amp; Problems.</p> <p>Importance of Report Writing - Types of Reports, Footnotes and Bibliography, Reference</p> <p>Management Software like Zotero/Mendeley, Research Software like SPSS, AMOS, GRATEL, R TOOLS., PYTHON, etc.</p>	<p>To develop the ability to utilize the suitable statistical tests using appropriate software.</p>
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	<b>Subject:</b>	<b>2.4 Digital Marketing</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Digital Marketing: Introduction, Meaning & Definition, History, Objectives, Features, Scope, Benefits and Problems, Techniques, Digital Marketing v/s Real Marketing. Landscape – Past – Today – Future; Internet Infrastructure Stack Business Models & Strategies: Strategic Planning – Strategy to Electronic Planning – Strategic Drivers of the Internet Economy – Business Models to Digital Business Models – E-Business Models– Performance Metrics – The Balanced Scorecard.	To understand the concepts of digital marketing and its various strategies.
Module – 2:	Digital Marketing Environment: Product – Products on Internet – Creating Customer Value Online – Product Benefits – E-Marketing Enhanced Product Development – Price – Change in Pricing Strategies – Buyer and Seller Perspectives – Payment Options – Pricing Strategies – Distribution– Online Channel Intermediaries – Distribution Channel Length and Functions – Channel Management and Power – Distribution Channel Metrics – Promotion – Integrated Marketing Communication (IMC) – Internet Advertising – Marketing Public Relations – Sales Promotion Offers – Direct Marketing – Personal Selling – IMC Metrics- Search Engine Optimization (SEO) – Contents, Tools & Optimization. Content Management – SWOC.	To familiarize with the digital marketing environment and SEOs.
Module – 3:	Research Environment: Data Driven Strategy – Marketing Knowledge Management – Monitoring Social Media – Technology-Enabled Approaches – Real-Space Approaches – Marketing Databases and Data Warehouses – Data Analysis and Distribution – Knowledge Management Metrics - Consumer	To outline the importance of market research and



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	Behaviour Online – Segmentation – Targeting – Differentiation – Positioning Strategies, Online Marketing Research Tools, Affiliated Marketing – Concept. Overview of Global E-Marketing Issues – Country and Market Opportunity Analysis – Technological Readiness Influences Marketing – Wireless Internet.	various research tools.
Module – 4:	Customer Acquisition and Retention: Profile of Consumers – Browsing Behaviour Model – Elements of Social Media – Social Media Strategies – Social Media Performance Metrics – Building Customer Relationships – Relationship Marketing – Stakeholders – Three Pillars of Relationship Marketing – Customer Relationship Management (CRM) – CRM Building Blocks – Ten rules for CRM Success – CRM Platforms, Strategies & Models. E-CRM System: Why & Uses, Website Solution Method, Web Analytics & Use of Google Analytics –Reports.	To identify and develop strategies and techniques for customer acquisition and retention.
Module – 5:	Emerging Issues: Online Governance and ICANN – Jurisdiction – Fraud – Consumer Loyalty of Website-Services – The Quadratic Effect of Flow – Role of Technology Readiness in Developing Trust and Loyalty for E-Services in Developing. Access – The Digital Divide Ethical and Legal Issues – Privacy – Digital Property – Online Expression – Cyber Security –Cyber Crime. Email, Facebook, Instagram, LinkedIn and other Social Applications Marketing – Concept.	To understand the legal and ethical issues in the 21 <sup>st</sup> century digital marketing scenario.



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	<b>Subject:</b>	<b>2.5 Emerging Trends In Entrepreneurship</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1	<p>Entrepreneurship: Introduction – Meaning &amp; Definition of Entrepreneurship, Entrepreneur &amp; Enterprise – Differences between Entrepreneurship, Entrepreneur &amp; Enterprise – Functions of Entrepreneur – Types of Entrepreneurs - 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.</p> <p>Entrepreneurship Development- Need – Problems – National and State Level Institutions, Recent Government policies and programmes in the promotion of entrepreneurial environment.</p>	To understand the concepts of entrepreneurship and its importance.
Module – 2	<p>Entrepreneurship Development and Leadership: Types of start-ups; Entrepreneurial class theories; Entrepreneurial training; EDP programmes; Characteristics of entrepreneurial leadership, Components of entrepreneurial leadership; International Entrepreneurship- Opportunities and challenges; Entrepreneurial challenges; Source of innovative ideas; Entrepreneurship and creativity; Techniques for generating ideas, Impediments to creativity, Contemporary Entrepreneurship – Gig Economy Entrepreneurs, Niche Entrepreneurs, Digital Nomadism, Disruptive Technology Entrepreneurs and New age Entrepreneurs.</p>	To familiarize with entrepreneurship development and challenges. To understand types of new-age entrepreneurship.



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Module – 3	<p>New Venture Planning: : Introduction to Venture, Meaning &amp; Definition, Objectives, Characteristics, Types, Stages, Methods to Initiate Ventures; Acquisition- Advantages of acquiring an ongoing venture and examination of key issues; Franchising- how a franchise works, franchising law, evaluating of franchising opportunities; Developing a marketing plan- customer analysis, sales analysis and competition analysis, steps in marketing research; Business plan-benefits of drivers, perspectives in business plan preparation, elements</p> <p>of a business plan; Business plan failures, Challenges in Indian Market for Ventures and Franchisees.</p>	To understand the planning process and various ways one can initiate a new venture.
Module – 4	<p>Financing Venture: Financing stages; Sources of finance; Venture capital; Angel Investment, Crowd Funding; Criteria for evaluating new venture proposals; Evaluating Venture Capital- process.</p>	To identify the sources of financing for a venture.
Module – 5	<p>Issues for Ventures: Legal issues – Forming Business Entity, considerations and criteria, requirements for formation of a Private/Public Limited Company, Intellectual Property Protection- Patents, Trademarks and Copyrights – Importance for start-ups, legal acts governing business in India; Opportunities and challenges for starts ups in India/Ethical Issues.</p>	To understand the various types of legal and other related issues that ventures face.



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	<b>Subject:</b>	<b>2.6 Indian Ethos And Leadership</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Indian Ethos: Indian Ethos- Meaning, Features, Need, History, Relevance, Principles Practiced by Indian Companies, Requisites, Elements, Role of Indian Ethos in Managerial Practices, model of management in the Indian socio-political environment, Management Lessons from Kautilya's Arthashastra Indian Heritage in Business, Management, Production and Consumption. Ethics v/s Ethos Indian Management v/s Western Management –Case Studies.	To make the student conscious about ethical values in real life and in business
Module – 2:	Work Ethos and Values: Work Ethos- Meaning, Levels, Dimensions, Steps, Factors Responsible for Poor Work Ethos. Values: Meaning, Features, Values for Indian Managers, Relevance of Value Based Management in Global Change, Impact of Values on Stakeholders: Employees, Customers, Government, Competitors and Society. B: Relevance of values in management: need for values in global change- Indian perspective; values for managers; holistic approach for managers in decision making; secular versus spiritual values in management, Trans-Cultural Human Values in Management and Management Education, Importance of Value System in Work Culture, teaching ethics–Case Studies.	To understand the concepts of workplace ethos and its importance.



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<p>Module – 3:</p>	<p>Leadership: concept and components of leadership. Trait approach in theories of leadership. Personal characteristics that support effective leadership. Leader and values, Moral Leadership, The significance of self-awareness for the role of leader. Significance of communication skills for work life and leadership, Personality Development: Meaning, Determinants, Indian Ethos and Personality Development. Competency and behaviour approaches to leadership, Leadership and organization culture–Case Studies.</p>	<p>To familiarize with leadership and personality development and its determinants.</p>
<p>Module – 4:</p>	<p>Leadership development: Skills for leadership and performance management: Goal setting, support of employee development and communication of feedback; delegation; solving of conflict situations and negotiation. Tools for analysis of leadership styles and 360-degree feedback. Coaching and mentoring. Emotions and self-management, emotional intelligence and its significance in the role of leader. Handling emotions and stress. Creative leadership: Influence on the creative potential of work groups and teams; formation of innovative climate in organizations–Case Studies.</p>	<p>To develop leadership skills in the students.</p>
<p>Module – 5:</p>	<p>Stress Management: Meaning, Types of Stress at Work, Causes of Stress, Consequences of Stress, Problems relating to stress in corporate management –Indian perspective, Stress Management Techniques: Meditation- Meaning, Techniques, Advantages, Mental Health and its Importance in Management, Brain Storming, Brain Stilling, Yoga: Meaning, Significance–Case Studies.</p>	<p>To understand and familiarize with stress, its causes and techniques to manage them.</p>





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	<b>Subject:</b>	<b>2.7 Artificial and Business Intelligence</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module 1 :	Artificial Intelligence: Meaning, scope, nature of business problem solving, cognitive science, knowledge acquisition techniques, knowledge sharing and transformation of knowledge	To understand the basics of artificial intelligence.
Module 2:	Knowledge Mapping: Inheritable knowledge, machine and robotic knowledge, knowledge mapping system, knowledge V/s skills, re-skills, knowledge creation with the help of AI, forward and backward thinking, value system and mind mapping techniques, human capital analytics.	To illustrate the knowledge management and knowledge mapping
Module 3:	Modelling of AI: Intelligent system, areas of AI, Psychological modelling, improving efficiency, business model analysis, appreciative intelligence, benchmarking analysis and business model analysis.	To understand and illustrate various AI modelling.
Module 4:	Intelligent Cycle: Intelligent cycle components, forms of analysis: facts, perception, beliefs, assumptions, projections and synthesis. Intelligent decision-making, intelligent solution to business problems, unlock value of AI in business, avoiding analysis pitfalls and developing analytical fitness through AI, Introduction to Machine Learning and Concepts of Data Science.	To understand the concepts of intelligence cycle and machine learning.
Module 5:	Business Intelligence: Meaning, importance in business decision-making interpretation of big data, business and competitive intelligence, business analytics, BI capabilities in business solutions, recent trends in BI.	To understand business intelligence and its impact on business decision making.



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## III Sem – M.Com

	<b>Subject:</b>	<b>3.1 Intellectual Property Rights</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to IPR: Introduction and the need for intellectual property right (IPR) - Kinds of Intellectual Property Rights: Patent, Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design – Genetic Resources and Traditional Knowledge – Trade Secret - Nature of Intellectual Property - Industrial Property - Technological Research, Inventions and Innovations – Important examples of IPR. - IPR in India. Genesis and development – IPR in abroad - Major International Instruments concerning Intellectual Property Rights: Paris Convention, 1883, Berne Convention, 1886, Universal Copyright Convention, 1952, WIPO Convention, 1967, Patent Co-operation Treaty, 1970, TRIPS Agreement, 1994 and others.	To familiarize oneself with the concepts of intellectual property and international treaties on intellectual property.
Module – 2:	Registration & Laws of IPR: Meaning and Practical aspects of registration of IPRs in India and Abroad: Registration Process in India, Office of the Controller General of Patents, Designs & Trade Marks (CGPDTM), National IPR Policy – Features. Laws of IPR: Patents Act, 1970, Trade Mark Act, 1999, The Designs Act, 2000, The Geographical Indications of Goods (Registration and Protection) Act, 1999, Copyright Act, 1957, The Protection of Plant Varieties and Farmers' Rights Act, 2001, The Semi-Conductor Integrated Circuits Layout Design Act, 2000, Aesthetic Values and Trade Secrets, Utility Models and others. Personal Data Protection Bill 2019. Career Opportunities in IPR.	To understand the laws that govern IPR in India.





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<p>Module – 3:</p>	<p>Patents &amp; Copy Rights: Patents - Elements of Patentability: Novelty, Non-Obviousness (Inventive Steps), Industrial Application - Non - Patentable Subject Matter - Registration Procedure, Rights and Duties of Patentee, Assignment and licence, Restoration of lapsed Patents, Surrender and Revocation of Patents, Infringement, Remedies &amp; Penalties - Patent office and Appellate Board. Nature of Copyright - Subject matter of copyright: original literary, dramatic, musical, artistic works; cinematograph films and sound recordings - Registration Procedure, Term of protection, Ownership of copyright, Assignment and licence of copyright - Infringement, Remedies &amp; Penalties – Related Rights - Distinction between related rights and copyrights.</p>	<p>To understand the concepts of Patents and Copyrights and familiarize oneself with their registration process.</p>
<p>Module – 4:</p>	<p>Trade Marks &amp; others: Concept of Trademarks - Different kinds of marks (brand names, logos, signatures, symbols, well known marks, certification marks and service marks) - Non-Registrable Trademarks - Registration of Trademarks - Rights of holder and assignment and licensing of marks - Infringement, Remedies &amp; Penalties - Trademarks registry and appellate board. Plant Variety Protection &amp; Layout Design Protection: Registration procedure.</p>	<p>To understand the concepts of Trademarks, Plant variety, Semiconductor Layout Design and familiarize oneself with their registration process.</p>



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Module – 5:	Design & Geographical Indicators (GI): Design: meaning and concept of novel and original - Procedure for registration, effect of registration and term of protection. Geographical indication: meaning, and difference between GI and trademarks - Procedure for registration, effect of registration and term of protection.	To understand the concepts of Designs and Geographical Indicators and familiarize oneself with their registration process.
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	<b>Subject:</b>	<b>3.2 Logistics and Supply Chain Management</b>
<b>SL. No.</b>	<b>Contents</b>	<b>CO</b>
Module – 1:	Elements of Logistics & Supply Chain Management: Introduction – Positioning of Information in Logistics and Supply Chain Management – Logistics Information System (LIS) – Operational Logistical Information System –Emerging Technologies in Logistics and Supply Chain Management, Growth of Logistics and Supply Chain Management in national and international scenarios.	To understand the basics of the logistics and supply chain management.
Module – 2:	Value Chain Management: Value Chain – Functions and Contributions – Supply Chain Effectiveness and Indian Infrastructure – Framework for Supply Chain Solution – Outsourcing and 3PLs – Fourth-party Logistics (4PLs) –Supply Chain Relationships – Conflict Resolution Strategies for Harmonious Relationships.	To familiarize the concepts of value chain analysis & framework of supply chain solutions.
Module – 3:	Supply Chain Sustainability-Triple Bottom Line –Profit, Planet, People-CSR-Ethics in Supply Chain Management.	To understand the impact of supply chain sustainability in business.



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<p>Module – 4:</p>	<p>Supply Chain Partners: Introduction– Concepts of Warehousing– Types of Warehouse– Functions of Warehousing– Strategic Warehousing, Warehouse Operations, Ownership Arrangements, Warehouse Decisions, Warehouse Management Systems, Packaging Perspectives, Packaging for Material Handling Efficiency, Materials Handling, Supply Chain Logistics Design: Global Strategic Positioning; Global SC Integration, SC Security, International Sourcing, Distribution control &amp; evaluation.</p>	<p>To explain the role and importance of supply chain partners.</p>
<p>Module – 5:</p>	<p>Supply Chain and Logistics Administration: Relationship Development Management- Relationship Management, Customer Relationship Management (CRM) Focus, Internal Supply Chain Management (ISCM) Focus, Supplier Relationship Management (SRM) Focus. Operational Performance, Financial Performance, Social Performance</p>	<p>To understand the value of relationship with various stakeholders in supply chain.</p>



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	<b>Subject: Accounting &amp; Taxation</b>	<b>3.2 Corporate Reporting Practices.</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module 1:	<p>Conceptual Framework of Financial Statements and IND-AS - Introduction- Framework and its purpose- scope of the “framework”- users of financial statements - objectives to prepare financial statements- underlying assumptions- Accrual Basis, Going Concern- qualitative aspects of financial statements- constraints on relevant and reliable information- elements of financial statements recognition of the elements of financial statements- measurement of the elements of financial statements- financial capital maintenance vs. Physical capital maintenance. IND-AS: Introduction to IND- AS, Adoption vs Convergence, roadmap for implementation of the Indian Accounting Standards (IND- AS), Financial statements as per schedule iii to the companies’ act, 2013- list of Indian Accounting Standards converged with IFRS.</p>	To gain expert knowledge and o analyse financial statements and to familiarise with various IND-AS standards.
Module 2:	<p>Measurement Based on Accounting Policies Ind AS 8: Accounting Policies, Changes in Accounting Estimates and Errors- (Provisions) , Ind AS 10: Events after the Reporting Period- (Provisions) , Ind AS 113: Fair Value measurement- (Provisions), Ind AS 20 “Accounting for government Grants and Disclosure of Government Assistance”-(Provisions), Ind AS 102 “Share Based Payment”-</p>	To gain insight into financial reporting and valuation.



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	(Provisions), Ind AS 101 “First-time Adoption of Indian Accounting Standards”-(Provisions)	
Module 3:	Asset Based Standards: Ind AS 2 “Inventories” - Ind AS 16 “Property, Plant and Equipment”- Ind AS 116 “Leases”- Ind AS 23 “Borrowing Costs” -Ind AS 36 “Impairment of Assets”- Ind AS 38 “Intangible Assets”- Ind AS 40 “Investment Property” (Note : Provisions & Practical Problems to be taught for all IND AS)	To understand the concepts of asset-based standards and ability to solve problems related to it.
Module 4:	Liability Based Standards: Ind AS 37 “Provisions, Contingent Liabilities and Contingent Assets” - Scope, provision, liability, obligating event, legal obligation, constructive obligation, contingent liability, contingent asset, relationship between provisions and contingent liability, recognition of provisions, Contingent asset and contingent liability, Measurement and Disclosure of Information in the Financial Statements. (Note : Provisions & Practical Problems to be taught)	To understand the concepts of liability-based standards and ability to solve problems related to it
Module 5:	Revenue Based Standards: Ind AS “115 Revenue from Contracts with Customers”, Ind AS 113 Fair Value Measurement” Contract, Customer, Income, performance obligation, Revenue, transaction price, Applicability of Ind AS 115, Recognition and identifying performance obligation, determining the transaction price, disclosure requirements in Financial Statements (Note: Provisions & Practical Problems to be taught).	To understand the concepts of revenue -based standards and ability to solve problems related to it



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<b>Subject: accountings &amp; Taxation</b>		<b>3.4 Strategic Cost Management - I</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Costing Strategy: Influence of different classification of cost elements on business enterprise, Importance of analysing cost elements, cost control and cost reduction: meaning, process, methods and techniques of cost control and cost reduction, cost management: areas of cost management, difference between cost management and cost accounting, role of cost accounting in strategic planning and management control.	To expose the students to the internal environment of business and to enable them to formulate strategies relating to cost.
Module – 2:	Activity Based Costing System: Introduction to traditional methods of overhead absorption, problems of overhead absorption system under Traditional System, introduction to ABC, Kaplan and Coopers approach to ABC, cost drivers and cost activities, allocation of overheads under ABC, Characteristics of ABC, benefits from adaptation of ABC System, problems on comparison between traditional system and ABC system.	To learn the various leadership styles and corporate culture prevalent for effective strategies.
Module – 3:	Life Cycle Costing: Meaning of LCC, factors affecting Life cycle costing, phases in product life cycle, characteristics, product life cycle and cost control. Experience curve in product life cycle costing. Project life cycle costing: Meaning, categories of project life cycle costs, optimization of project life cycle costs.	To understand strategy formulation and implementation in business operations.





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Module – 4:	Just in Time and Kaizen Costing: JIT – features, methodology in implementation of JIT, Benefits of JIT. Kaizen Costing: concept, procedure for implementation, evaluation, benefits of Kaizen costing. Lean Cost Management: Meaning, definition, factors, applications, procedure to implementation, comparison with traditional management system, Modern production management techniques, benefits and drawbacks of Lean Cost Management.	To acquire knowledge on various strategies prevalent for global market
Module – 5:	Strategic Cost and Performance Evaluation: Integration of strategic cost management with performance evaluation, Strategic cost management issues in different elements of cost; material, labour and overheads; product design, value analysis and value engineering, strategic analysis of cost, business process re-engineering, benchmarking.	To acquire the concept of environmental scanning and industry competition in the present global scenario





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	<b>Subject: Accounting &amp; Taxation</b>	<b>3.5 Corporate Tax Planning</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Basic frame work of Direct Taxation – Introduction to Taxes, History of Taxation in India- Principles of Direct Taxation- Appraisal of Annual Finance Act, Tax Planning and its methods, Advance Tax Rulings.	To give an integrated view of direct tax and apply the laws to business decisions.
Module – 2:	Assessment of Company – Meaning, Types, Salient features of company taxation, – Head – wise computation of income of companies, Depreciation U/S 32 - set-off and carry forward of losses, deductions from gross total income 80G-80GGA-80GGB, 80JJA, 80IA-80IB-80IC, Calculation of Taxable Income and Tax Liability as per Normal Provisions, MAT (Minimum Alternative Tax) 115 JB and Tax Credit.	To understand and compute taxable income of companies.
Module – 3:	Tax planning and Management - Meaning, Objectives, Scope, Tax Avoidance, Tax Evasion, and Tax management -Tax planning with reference to setting up of new business, Location of new business, Nature of new Business, Forms of Organization- Tax planning with respect to amalgamation and mergers, multinational companies, double taxation treaties, joint ventures and foreign collaborations, Tax Haven, Vivad se Viswas, (Settlement of Pending Litigations)	To familiarize oneself with tax planning and tax management concepts.
Module – 4:	Corporate Restructuring & Tax Planning – Capital Structure Issues & Issues of Bonus Shares, Make or Buy, Own or Lease, Retain or Replace, Repairs, Renewal, Transfer pricing. Contemporary Issues like Direct Tax Code and its implication to various Indian sectors, Budget Implications to Income Tax provisions.	To understand the concepts of restructuring of capital and other contemporary issues.



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Module – 5:	Tax Payments- E-TDS/TCS, advance payment of tax, e-filing of tax returns and assessments, CBDT Tribunal, Appeals to High Court/Supreme Court and Settlement Commission, refunds, and revision.	To familiarize oneself with tax payment systems and grievance redressal mechanisms.
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	<b>Subject: Open Elective</b>	<b>3.6 Cooperative Management</b>
<b>Sl .No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Concept of cooperation – definition, principles of cooperation, 1995 and basic values- Theoretical perspectives. Reformist, Institutional and Behavioural approaches. Cooperative thought process; Pre – Rocha dale thinkers; Robert Owen, Charles Fourier, Louis blank; post- Rocha date thinkers; Raiffeisen, , Dr. Warbasse, Fouquet, Charles Gide, Jawaharlal Nehru and M Gandhiji views on cooperation	To develop a theoretical and technical understanding of Accounting, Finance, Banking, Marketing and Human Resources Management concepts and practices .
Module – 2:	Major sectors of cooperatives development; Agricultural credit sector ST and LT structure- operational features – viability- factors affecting viability- Non Agricultural credit sector; urban credit, Housing and industrial cooperative banks working profiles and problem	The ability to cope with future developments in these areas
Module – 3:	Non-credit cooperatives- marketing, Sugar, spinning and tea cooperatives- Diary cooperatives- consumers cooperatives industrial and weavers	To enhance self-confidence and the ability to critically evaluate business and management issues, and develop solutions from the ethical, professional as well as academic perspectives



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Module – 4:	Control Techniques; Importance, various control techniques, budgetary control zero base budgeting programmes budgeting Criteria for judging the operations efficiency of cooperatives; indicators of efficiency- membership coverage resource mobilization- minimization of cost of capital mobilization of return on investments- inventory management- productivity management- profitability – Impact on the living conditions of members Management audit – Meaning, importance and features of management audit.	To install a critical and integrated understanding of the world of business, with a firm foundation in related areas such as economics, ethics, information technology, organization behaviour and co-operative law
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<b>Subject: Finance And Banking</b>		<b>3.2 Financial Markets &amp; Services</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Primary Market: Meaning, functions; Methods of floating new issues: (a) Public issue- process of public issue, prospectus, contents of prospectus, Red-herring prospectus, stock invest scheme, book-building-benefits and limitations of book building; (b) Bought out deals; (c) Rights Issue- procedure for rights issue; (d) Private placement and preferential offer. Parties involved in the new issue market, Government and statutory agencies, collection centres. Pricing of new issue and SEBI guidelines; SEBI and investor protection in the primary market.	To provide understanding of the working of Primary markets in India and abroad.
Module – 2	Introduction to Secondary Market: Meaning and importance; organization of stock exchanges; listing of securities in stock exchanges- listing requirements, listing procedure, listing application, listing agreements; trading mechanism- open outcry system, screen based trading, online-trading WAP (Wireless Application Protocol) trading, the process of buying and selling shares, types of orders, share groups; settlement- Fixed settlement system, Rolling settlement. Risk Management: Margins-VAR (Value of Risk) based margin, mark to market margin, margins	To know the working of secondary markets and understanding risk management techniques involved in trading.



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	based on turnover, exposure limits, Gross exposure limits, violation charges, price bands; carry forward transactions. Individual stock quotations; stock market indices. Brief on Stock Markets in India.	
Module – 3	Introduction to Financial Services: Introduction to Financial Services: Meaning & Definition, Nature, Scope and Characteristics, Classification, Importance of Financial Services for Economic Development, Fund Based & Fee Based Financial Services, New Financial Products and Services, Challenges facing the Financial Service Sector.	To expose the students to a wide variety of emerging financial services.
Module – 4	Mutual Funds & Venture Capital: Introduction to Mutual Funds – Meaning, Definition, Scope, Types, Importance, Risks, Net Asset Value, Mutual Fund in India & Abroad, Performance of Mutual Fund Industry in India. Introduction to Venture Capital – Meaning, Definition, Scope, Importance, Methods of Venture Financing, SWOC of Venture Capital, Growth of Venture Capital in India.	To understand the concepts of mutual fund services and importance of venture capital as a source of financing for a company.
	Credit Rating & Emerging Technology: Introduction to Credit Rating, Meaning & Definition, Features, Need, Process, Agencies of Credit Rating, Rating Framework, Factors considered for Rating and Types of Rating, Pros & Cons, Credit Rating in India, International Rating Agencies, Use of AI in Financial Services.	To familiarize with credit assessment of an organization and meaning various types of rating and usage of technology in financial services.



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	<b>Subject: Finance And Banking</b>	<b>3.4 Financial Planning</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Financial Planning: Introduction, Meaning & Definition, Golden Rules of Financial Plan, Objectives, Process & Stages, Characteristics, Functions, Importance, 1H & 4W approach on Financial Plan, Financial Planning for Individual & Organisation, Life Cycle Approach, Formulation of Financial Plan, Financial Planning in India. Introduction to Financial Goals, Salient Features of Financial Goals, Stages of Financial Goals.	To understand the concepts of financial planning and its importance.
Module – 2	Introduction to Investment Avenues: Introduction to Investment Avenues, Risk and Return Analysis of: Direct Equity, Equity & Debt Mutual Funds, National Pension Scheme, Public Provident Fund, Provident Fund, Pension Fund, Bank Savings Account, Bank Fixed Deposit Account, Bank Recurring Deposit Account, Senior citizens' savings scheme, Pradhan Mantri Vaya Vandana Yojana (PMVVY), Real Estate, Precious Metals like Gold & Silver, RBI Taxable Bonds, Unit Linked Insurance Plans (ULIPs), Equity Linked Savings Scheme (ELSS), IPO, FPO, Gold Exchange Traded Funds (ETF), Unit Linked Insurance Plans (ULIPs), Sovereign Gold Bond Scheme, Commodities, Insurance Products, and others.	The familiarize oneself with various investment avenues available.





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Module – 3	Developing Financial Plan: Introduction to Financial Plan, Meaning & Definition, Critical analysis of Investment Opportunities, Risks in Financial Plan, Risk Assessment of Individual and Companies in general. Steps in Financial Plan, Factors considered for Financial Plan, Evaluation & Revision of Financial Plan.	To construct a viable financial plan understanding the risks faced by an individual as well as a company.
Module – 4	Retirement & Tax Benefits: Introduction, Meaning & Definition, Objectives, Importance, Types of Retirement Plans, Savings Pattern for Retirement Benefits, how to plan your Retirement? Retirement Plans in India. Introduction to Tax Benefit Schemes, Meaning, Types, Benefits, Tax Benefit Plans in India.	To understand the importance of planning for after retirement income and familiarize oneself with tax saving investment avenues.
Module – 5:	Chartered Financial Planner & Analysts: Introduction, Meaning & Definition, Objectives, Characteristics of Chartered Financial Planner and Analyst, Steps in Financial Planning, Importance, Organisational Hierarchy. Factors to be considered for Investment & revision of portfolio, employment opportunities for Financial Planner & Analysts in India and abroad.	The students will get to know about the career opportunities and understand the factors that affect an investment.





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	<b>Subject: Finance and Banking</b>	<b>3.5 Innovations In Banking &amp; Technology</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to Banks: Bank, Banker, Banking, Evolution, Role of Banking System in India, Classification, Objectives, Functions, Schedule v/s Non-Schedule, Public v/s Private, Traditional v/s Modern Payment Banks, Banking System in India.	To understand the evolution of banking sector in India, different types of banks and can distinguish them.
Module – 2	Core Banking: Introduction, Meaning & Definition, Characteristics, Pros and Cons, Evolution of Bank Management - Technological Impact in Banking Operations - Total Branch Computerization - Concept of Opportunities - Centralized Banking - Concept, Opportunities, Challenges & Implementation.	To understand core banking concepts, its importance and impact on current banking industry.
Module – 3	Cognitive Banking: Introduction, Meaning & Definition, Characteristics, Pros and Cons, Fintech Technologies in Banking – Industrialisation 4.0, Artificial Intelligence, Cognitive Banking, Blockchain Technology and Cloud Computing: How it works? Cognitive Analytics, AI Tools in Banking Industry, Robotics in Banks	To familiarize oneself about the concepts of cognitive banking and implementation of industrialization 4.0 in banking.
Module – 4	Technology in Banking– Plastic Card, Wireless / Wired Point of Sale Machines, Bar Code & QR Code Payment, Recent developments in Payment Systems, e-KYC, Truncated Cheque, NFS, MICR, EFT, ECS, NEFT, RTGS,	To identify various technologies available in banking.



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	IMPS, AEPS, USSD, UPI, E-Wallet, Mobile Point of Sale, M-Banking Services and Nano Banking.	
Module – 5:	Frauds in Banking Industry: Introduction, Types of Frauds, Issues in online and offline Banking System, Financial Scams, Online Scams, Precautionary Measures to be taken by Banks and Customers, OTP, TTP, Security measures by Banks in India.	To understand and outline the security issues and measures to overcome them while using internet / online banking.



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	<b>Subject:</b>	<b>4.1 Business Analytics</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – I	Introduction to Analytics: Introduction, Meaning & Definition, Characteristics, Applications of Analytics, Meaning of Business Analytics, SWOC of Analytics, Importance of Analytics, Tools & Techniques of Analytics, Functions of Analytics, Reports in Analytics, Relevance of Analytics in Business, Latest Softwares for Business Analytics.	To understand the basics and necessary softwares for business Analysis
Module – II	HR Analytics: Introduction, Meaning & Definition, Features, Objectives, Importance, Functions, Types of HR Analytics, Employee Performance Evaluation, Employee Attrition Rate, Recruitment Analytics, Compensation Analytics, Talent Analytics, Training Analytics, Workforce Analytics, Role of Analytics in HRD as a whole, Potential Application of Analytics in HR Department Relevance of HR Analytics in Business, Latest Softwares for HR Analytics.	To understand and critically apply the concepts and methods of in HR analytics
Module – III	Marketing Analytics: Introduction, Meaning & Definition, Characteristics, Objectives, Importance, Functions, Types of Marketing Analytics, Buying Pattern Behaviour Analysis, Analysis of Trends, Identification of Target Audience, Advertising Techniques, Forecasting Demand & Supply, Segmentation, Marketing Mix Optimization, Competitor Analysis, Channel Analysis, Sales Performance Analysis,	Foster an ability to critically analyze, synthesize and solve complex unstructured Marketing problems by Analysing the data.



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	Campaign Analysis, Sales Pipeline Reporting, Use of Google Analytics in Marketing, Social Media and its relevance on Marketing Analytics, Potential Application of Analytics in Marketing Department, Latest Softwares for Marketing Analytics.	
Module – IV	CRM Analytics: Introduction, Meaning & Definition, Characteristics, Objectives, Importance, Functions, Types of Customer Analytics, e-CRM, m-CRM, Role of Analytics in CRM, Purchasing Pattern Analysis, Life Style of Customers, Loyalty Analytics, Customer Life Time Value, Propensity Analytics, Churn Analytics, Customer Segmentation, Cross- Sell or Upsell Models, Analytics and Innovation, Potential Application of Analytics in CRM, Relevance of CRM Analytics in Business, Latest Softwares for CRM Analytics.	To Solve CRM analytics problems using best practices of data analysis using modern computational tools
Module – V	Finance Analytics: Introduction, Meaning & Definition, Characteristics, Objectives, Importance, Functions, Critical Financial Analytics, Risk based Pricing, Fraud Detection and Prediction, Recovery Management, Loss Forecasting, Risk Profiling, Portfolio Stress Testing, Potential Application of Analytics in Finance department, Relevance of Financial Analytics in Business, Latest Softwares for Finance Analytics(Simple Practical Applications of Financial Analytics for Business Decisions).	To assess financial statements which contain information on past performances and interpret it as a basis for forecasting future rates of return and for assessing risk.



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	<b>Subject:</b>	<b>4.2. Forensic Accounting &amp; Auditing</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – I	Forensic Accounting: Forensic Accounting: Meaning, Concept, Role of the professional forensic accountant, Requirements of professional forensic accountant, Responsibilities of accounting investigators and auditors. Fraud – Introduction, Types of fraud, Reasons of fraud, Fraud cycle, Bank Fraud, Corporate Fraud, Insurance Fraud, Cyber Frauds, Securities Fraud, Consumer Frauds, Traits & behaviours of fraudsters, Targets of fraudsters, case studies.	To understand the concepts of forensic accounting and frauds and their behaviours.
Module – II	Fraud Detection Techniques: Fraud detection techniques, Effective information gathering methods, Fraud risk factors, Professional analytical procedures and techniques. Financial statement fraud – Meaning, Introduction, revenue recognition detection, ratio. analysis, horizontal analysis, vertical analysis, cash flow analysis, case studies.	To familiarize oneself with various techniques used in fraud detection.
Module – III	Fraud Risk Assessment: Profiling Fraudsters, Organisational profiling methods, Risk analysis & assessment, variety of risk assessment factors, best practices. Fraud risk prevention – meaning, importance, combatting actual instances of fraud, case studies.	To assess and prevent fraud risk.



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Module – IV	Forensic Audit: Meaning and Significance – Meaning of Audit – Audit: An Adhering Significance – Stages of Audit – Meaning of Forensic Audit – Significance of Forensic Audit – Key Benefits of Forensic Audit – Need and Objectives: Forensic Audit – Fraud and Forensic Audit: An Introspect – Forensic Audit vis-à-vis Audit.	To understand forensic auditing and its importance for a business.
Module – V	Audit and Investigations: Tools for handling Forensic Audit – Forensic Audit Thinking (Thinking Forensically) – Forensic Audit Procedures – Appropriate Use of Technology - Investigation Mechanism - Types of Investigations - Methods of Investigations: Computer Assisted Auditing Techniques (CAATs) and tools (CAATT) Generalized Audit Software (GAS), Common Software Tools (CST). Finding Facts and Conducting Investigations - Red Flags - Green Flags.	



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	<b>Subject: Accounting And Taxation</b>	<b>4.2 Corporate Reporting Practices-II</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Interpretations of Financial Statements: An overview of Annual Reports, Contents of Annual Report, Key Indicators of Financial and Non- Financial performance, Nature and extent of Reportable segments, Disclosures of segment information, Management discussions and Analysis.	To understand and interpret financial statements using various indicators.
Module – 2	Disclosures in the Financial Statements: Ind AS 24 “Related Party Disclosures”, Ind AS 33 “Earnings per Share”, Ind AS 108 “Operating Segments”, IND AS-34 “Interim Financial Reporting”, Ind AS 102 Share-based Payment (Note: Provisions & Practical Problems to be thought for all IND AS).	To gain insight into financial statements disclosures using various relevant accounting standards.
Module – 3	Accounting and Reporting of Financial Instruments: Presentation of Financial Instruments (Ind AS 32) – Meaning, Financial Assets, Financial Liabilities - Presentation Recognition and Measurement of financial Instruments (Ind AS 39) – Initial and Subsequent Recognition and measurement of Financial Assets and Financial Liabilities, Derecognition of Financial Assets and Financial Liabilities- Disclosures of Financial Instruments (Ind AS 107)	To apply technical knowledge, analytical techniques and professional skills in reporting financial instruments.





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<p>Module – 4</p>	<p>Business Combination and Corporate Restructuring: Introduction- Relevant Terms, Types of merger, methods of accounting, Recognition and Measurement Criteria as Per Ind AS (IND AS 103) treatment of Goodwill arising on merger, purchase consideration and settlement; Accounting in books of vendor/transferor company, Accounting for investment in subsidiary, Accounting for holding companies (including chain holdings, multiple holdings), Corporate Financial Restructuring (including intercompany holdings), Reconstruction schemes, De-merger.</p>	<p>To understand the corporate restructuring and accounting for the processes involved therein.</p>
<p>Module – 5:</p>	<p>Recent Developments in Financial Reporting: Triple bottom line reporting (TBL) – concept, benefits, implementation, forms, users, Challenges. Sustainability Reporting - Concept, Forms, Benefits, Global Reporting Initiative (GRI). Corporate Social Responsibility- Meaning, importance, requirements and users of CSR Report, benefits, reading of CSR Report, Companies Act-2013 and CSR Policies, Evaluation of CSR reports, innovation in CSR Reporting. Value Added Statement, Economic Value Added, Market Value Added, Shareholders' Value added, Human Resource Reporting.</p>	<p>To familiarize with recent developments in financial reporting</p>





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<b>Subject: Accounting and Taxation</b>		<b>4.3 Strategic Cost Management-II</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Pricing Strategies in Decision Making: Pricing strategies: Pricing policy, process, Role and methods: cost plus pricing, Marginal cost pricing, pricing for target rate of return, added value method of pricing, differential cost pricing going rate pricing, opportunity cost pricing, standard cost pricing, customary pricing, pricing strategy for Export oriented products, methods of export pricing, pricing strategies for new products, management accountant role in product pricing.	To expose the students to the various pricing strategies and models utilized by businesses
.Module – 2	Transfer Pricing: Transfer Pricing – meaning, necessity, Objectives, applications, Methods (Cost Based, Market Price Based and Negotiated Pricing), Advantages and Disadvantages, Criteria for setting Transfer Prices, Guiding Principles in the fixation of transfer prices, Transfer Price in different situations. International transfer pricing: meaning, factors affecting international transfer pricing.	To enable the students, understand the concepts of transfer pricing and solve practical issues thereto.
Module – 3	Learning Curve Theory: Introduction, meaning and definition of learning curve, phases in learning curve, applications of learning curve, factors affecting learning curve, comparison between learning curve and experience curve.	To acquire a deepened knowledge on learning curve theory and solve problems pertaining to it.



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<p>Module – 4</p>	<p>Cost of Quality and TQM: Definition, classification of quality costs, cost of Conformance, Prevention costs, appraisal costs, cost of Non-conformance, optimization of quality cost, TQM Core concepts of TQM, Benefits of TQM. TQM –basics, stages, principles, control, corrective actions, PRAISE- steps, problems, implementation Cost of quality report          Continuous process improvement.</p>	<p>To gain knowledge about total quality management and its implementation.</p>
<p>Module – 5:</p>	<p>Balanced Scorecard and Benchmarking: BSC: Introduction, drawback of traditional financial measures, attributes to good performance measurement system, concept of balanced score card, perspectives of B.SC and implementation of Balanced score Card, case studies on BSC. Benchmarking – Concepts, Benchmarking process, Impact on Indian Industry, Types of Benchmarking.</p>	<p>To expose to knowledge of the concepts of balance scorecard and benchmarking.</p>



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	<b>Subject: Accounting And Taxation</b>	<b>4.4 Customs Duty And GST</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	Introduction to GST- GST Acts- Meaning-Definition-Objectives-Features- Need and Benefits- Dual GST Model- Classification of Goods and Services: Taxable – exempted–Composition Scheme - Rates of GST- Registration: CGST, KGST (Karnataka State) and IGST Acts, 2017. GST Network (GSTN) – Goods and Services Tax Suvidha Providers (GSP) – GSP Eco system. (Provisions only)	To familiarize the students with the indirect tax laws.
Module – 2	Levy and Collection of GST: Supply under sec 7 – Relevant definitions – supply for further business - supply without consideration, composite and mixed supplies - Place of supply. Time and Value of supply of Goods u/s 12 and Services u/s 13: Relevant definitions- time of supply of goods u/s 12 services u/s 13, forward charge and reverse charge, vouchers for exchangeable goods, residual goods, interest and late fee for delayed payment u/s 12(6), Value of supply u/s 15- inclusions u/s 15(2) a,b,c,d – exclusions u/s 15(3), supply where value can't be determined and notified supplier, related person supply. Methods of Valuation of Goods and Services- Problems including Composition levy.	Develop an understanding on the concepts and process of levy and collection of GST.



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Module – 3	<p>Input Tax Credit: Relevant definitions- Eligibility and conditions for claiming credit – Apportionment of credits and blocked credits – Credit on Capital goods – Availability of credit in special circumstances – Transfer of Input tax credit – Claim of Input tax credit – Matching, reversal and reclaim of Input tax credit, Recovery of Input tax credit and interest there on – Taking input tax credit in respect of inputs sent for job work. – Problems on claiming Input Tax Credit and Assessment of Tax Liability.</p>	<p>To understand, assess and compute input tax credit.</p>
Module – 4	<p>Procedure and Administration Under GST: All procedures including registration, tax invoice, credit and debit notes, electronic way bill, accounts and records, returns (GSTRs), payment of tax including reverse charge, refund, job work-Provisions relating to electronic commerce- Liability to pay in certain cases Administration of GST; Assessment and Audit- Inspection, Search, Seizure and Arrest Demand and Recovery- Offences and Penalties-Advance Ruling- Appeals and Revision.</p>	<p>To familiarize the concepts required for the procedure to register, generating invoices and other administrative processes of GST.</p>
Module – 5:	<p>Customs Act, 1962: Introduction to customs duty - Customs Procedures – levy and collection of customs duty exemptions from customs duties – Methods of Valuation of Customs Duty [including antidumping and safe guard duty] - Baggage –Recent Amendments to Customs– Problems. Detailed procedure in relation to transportation and warehousing – relevant rules and regulations. Drawbacks of customs duties paid – Preparation and submission of drawback claim forms. Adjudication and appeals before the customs authorities and the appellate Tribunal.</p>	<p>To understand and familiarize oneself with the Customs Duty Act 1962 and process as well as computation of customs duty.</p>



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	<b>Subject: Finance And Banking</b>	<b>4.3 Forex Management</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module - 1 :	<p>Elements for Foreign Exchange: International Monetary Systems: Concept, Gold standard, Fixed Exchange Rates, Flexible Exchange Rates, Managed Float System, Fluctuations in Foreign Exchange Rate: Causes and Effects - Need for stability in Foreign.</p> <p>Exchange Rate. Introduction to Forex, Evolution, Importance, Features &amp; Objectives, Foreign Exchange Market, Intermediaries, Exchange Rate Forecasting.</p>	To expose students to the concepts of Foreign Exchange and its evolution.
Module – 2	<p>Determination of Exchange Rates: Types of Foreign Exchange Risks, Factors affecting exchange rates - International trade - Theories of determination of foreign exchange rates - The Law of One Price, Purchasing Power Parity, Interest Rate Parity, Flow Model, Asset Market Model. Balance of payment theory - Forecasting Forex Rates, Technical Forecasts, Economic Models, forecasting of fixed exchange rates from convertible currencies.</p> <p>Nominal Effective Exchange Rates and real Effective Exchange rates, Impact of exchange rate on BOP - Remedial measures taken by Government &amp; Regulatory Authorities in India.</p>	To understand various models used in determination of exchange rates.
Module – 3	<p>Forex Trading &amp; Contracts: Forex trading infrastructure and networks, control's on order placing, direct and indirect quotas, cross rates, speculation, exchange arithmetic psychology of the forex trader,</p>	To understand the working of forex



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	computerized trading programme, information analysis of trading, Problems on Direct and Indirect Quotes. Contracts - Hedging against Exchange Rate Fluctuations: Forwards, Options & Swaps	trading and evaluate quotes and contracts.
Module – 4	Exchange Payments: Cash and Spot Exchange Markets, Eurocurrency Markets, The Role of Commercial Banks, Mechanics of Making Foreign Payment, SWIFT, LERMS, Costs Associated with International payments, Basket of Currencies.	To demonstrate various types of exchange payments in the forex market.
Module – 5	Forex Risk Management – Meaning & Definition, Importance, Objectives, Features, Methods, Applications. Hedging, Speculation and Management of types of exposures in Forex Market. Using forward markets for hedging – hedging with money market, currency options and currency futures: problems. Internal & External Hedging Strategies – speculation in foreign exchange and money markets.	To summarize and outline types of risks in forex market and techniques in managing them effectively.



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	<b>Subject: Finance And Banking</b>	<b>4.4 Security Analysis &amp; Portfolio Management</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module - 1 :	Introduction to Securities : Investment – Meaning & Definition, Types or Avenues of Investment, Investment v/s Gambling v/s Speculation v/s Arbitration v/s Hedging, Factors to be considered for Investment, Investment Policy, Risk and Return Analysis, Types of Risk Appetite, Types of Risks in Investment, Sources of Risk, Risk Measurement – Standard Deviation, Covariance, Beta, Correlation (problems), Legal framework and Regulatory cover for Investment in India.	To provide a theoretical and practical background in the field of investments. To measure Risk and return parameters of individual stock
Module – 2	Security Analysis: Introduction to Fixed and Variable Income Securities, Equity Valuation Models, Fixed Income Securities Valuation Models: Bonds, Introduction to – Fundamental Analysis, Economic Analysis, Industry Analysis, Company Analysis, Technical Analysis – Modern Tools for Technical Analysis – Line, Point and Figure, Candlestick, Renko Chart, Heikin Ashi, etc. Price Patterns of Stock, Price Trends of Stock, Practical explanation on Technical Indicators used in Stock Market. Dow Theory & Efficient Market Hypothesis (EMH) – Meaning and Types.	Particular emphasis is given to three competing approaches to stock investment: Fundamental analysis, technical analysis and efficient market analysis.
Module – 3	Introduction to Portfolio Management & Models: Meaning of Portfolio Management, Need, Objectives, Process, Selection of Securities, Harry Markowitz Optimum Portfolio Theory, Capital Asset Pricing Model, CML, SML, Beta Factor – Alpha and Beta Coefficient –	Designing and managing the bond as well as equity portfolios in the real word. Encourage students to apply





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	Problems, Sharpe Single Index Model (Theory), Arbitrage Pricing Theory, Principle of Arbitrage, Arbitrage Portfolios; Two Factor and Multi Factor Models.	stock and option valuation models in portfolio management
Module – 4	Portfolio Evaluation & Revision: Portfolio Evaluation Strategies - Sharpe Model – Jensen Model – Treynor Model and MM Model – Problems Portfolio Revision, Active and Passive Management, Formula Plans, Measure of Return, Risk Adjusted Measures of Performance Evaluation, Market Timing, Evaluation Criteria and Procedures. Recent development in strategies.	Measuring the portfolio performances.
Module – 5:	Global Markets: Global Investment Benefits – Introduction to ADRs, GDRs, IDRs, Green Bond, Masala Bond, FCCBs, External Commercial Borrowings, Foreign Bonds, Global Mutual Funds – Relationship between Trends in Global Markets and the Domestic Markets, International Investing, International Funds management, Emerging Opportunities.	To understand different security around the world with its nature and Characteristics.





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	<b>Subject: Finance And Banking</b>	<b>4.5 Strategies For Banking Risk And Marketing Management</b>
<b>Sl. No.</b>	<b>Contents</b>	<b>Co</b>
Module – 1:	<p>KYC, AML and Account Opening Process Importance of KYC and AML, Why RBI insists on KYC procedures, The role of Banks in implementing KYC, penalties for non-adherence; Different stages of money laundering, Understand the importance of AML at the time of account opening; Customer acceptance policy: low, medium and high risk customers; Customer verification procedure, KYC. documents required for account opening, verification process; Account opening formalities, forms, documents, procedures; Risk management ,KYC, AML – monitoring transactions and reporting of suspicious transactions</p>	<p>To understand the need, importance, concepts and process of KYC and AML.</p>
Module – 2	<p>CASA Deposits: Meaning; Importance; Features and Benefits; Understand what CASA deposits are; Importance of CASA deposits for banks ; Impact on profitability of banks; Features and benefits of current accounts, savings accounts and their variants; Transactions, services and channels offered by banks for CASA account holders; Benefits of CASA deposits to customers</p>	<p>To understand the concepts of CASA deposits and its advantages and impacts to all relevant stakeholders.</p>



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<p>Module – 3</p>	<p>Banking Services to CASA Customers, Cross Sell Products Investments and Loans. Service channels – branch, ATM, internet, mobile banking; Payment and collection services – cheques, electronic funds transfers, cash management, cheque clearing; Ancillary services – locker and safe custody, payment of taxes and bills; Financial services – Sale of insurance mutual funds, gold coins, Government bonds; Depository services – Demat and web trade. Wealth management; Foreign exchange ; Principles of lending, concepts, regulations ; Retail lending – secured and unsecured; Home loan, car loan, loan against securities, Credit cards, personal loan and educational loan ;Business credit – working capital and term loan. Over draft cash credit, term loans, fund based and non-fund based; Priority sector lending – Agri credit, MSME ; NPA management</p>	<p>To understand and familiarize oneself with the various financial services available for a CASA customer.</p>
<p>Module – 4</p>	<p>Strategies for Increasing CASA Deposits through Sales and Marketing: Identify the targets and goals product wise for the year and for each month ; Plan the marketing mix for achieving the goals- segmenting targeting products positioning, resource planning ; Plan promotional activities to spread awareness; Collaborate with the team for assigning individual targets, review and performance support; Catchment mapping – Identify the area covered by the branch, identify different segments of customers, potential for business, banking needs, competition; Promotional activities and campaign for lead.</p>	<p>To explain, compare and examine various marketing and sales strategies involved to increase the CASA deposits.</p>



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	<p>generation: Recording of leads, Understand the sales funnel, follow up suspects, identify prospect; Field visit route map – Plan the route and customer visits per day; Sales call review and monitoring</p>	
<p>Module – 5:</p>	<p>Selling Skills and Customer Relationship Management: Continuous self- improvement Positive attitude, updated knowledge professional attire, etiquette, behaviour, communication skills; Understanding customer segments and needs – Profiling of customers, analysing customer’s financial goals, needs and banking transactions, identifying appropriate products to satisfy the needs; Sales process – Pre sale – fixing up appointments preparing the sales kit- Sales execution – Follow the five steps – opening, developing a need, proposing products based on benefits; Handling objections, different types of customers, practice the art of probing, listening and persuasion; Practice different type of closure, close the sale; Post – sale analysis, follow – up and service; Account opening – assist in documentation, completion of formalities and activation of account handing over account opening kit to client, explain how to use the features, explain fees and charges; Understanding customer needs and cross sealing appropriate products that satisfy the needs of customers; Customer service management – handing complaints, resolving issues; Building win-win relationships, balance compliance with service</p>	<p>To demonstrate and develop skills related to selling of CASA and customer relationship management.</p>



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## Department of MBA

### Course Matrix

#### Department Vision, Mission and PO, PSO and COs of all Departments

##### Vision

To be one of the Preferred Institution for Nurturing Human Resources to Manage the Business in Society.

##### Mission

1. By offering Employability competency oriented well balanced theory and Practice Education.
2. By offering Investigative and solution providing Education.
3. By Nurturing Entrepreneurial mindset.



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## Program Outcomes (Po)

1. Apply knowledge of management theories and practices to solve business problems.
2. Foster Analytical and Critical Thinking Abilities for Data-Based Decision Making.
3. Ability to develop Value Based Leadership ability.
4. Ability to Understand, Analyse and Communicate global, economic, legal, and ethical aspects of business.
5. Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.

## Course Outcomes (Co)

At the end of the course student must:

CO1: Able to Exhibit the knowledge acquired from the course contents.

CO2: Able to Demonstrate the necessary skills acquired from the course.

CO3: Able to solve real time problems based on course contents.



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## Department of MCA

### Course Matrix

Sem	Paper Code	Title of the paper	Hours / Week	Marks			Credits	
				IA	Exam	Total	Subject	Sem
<b>Surana College (Autonomous)</b>								
I	21PS1.1	The Art of Programming	4	30	70	100	4	28
	21PS1.2	Discrete Mathematics	4	30	70	100	4	
	21PS1.3	Computer Organization and Architecture	4	30	70	100	4	
	21PS1.4	Theory of Computation	4	30	70	100	4	
	21PS1.5	Object Oriented Programming	4	30	70	100	4	
	21PS1.6	Data Structures	4	30	70	100	4	
	21PS1.7	Data Structures Lab	8	30	70	100	2	
	21PS1.8	Object Oriented Lab	8	30	70	100	2	
	21PS2.1	Operating Systems	4	30	70	100	4	
	21PS2.2	Database Management Systems	4	30	70	100	4	
	21PS2.3	Computer Networks	4	30	70	100	4	
	21PS2.4	Software Engineering	4	30	70	100	4	
	21PS2.5	The Design and Analysis of	4	30	70	100	4	



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II		Algorithm						28
	21PS2.6	Artificial Intelligence	4	30	70	100	4	
	21PS2.7	Database Management System Lab	8	30	70	100	2	
	21PS2.8	Unix Programming Lab	8	30	70	100	2	
III	<b>Bangalore University</b>							26
	3MCA1	Open Elective	3	30	70	100	3	
	3MCA2	Soft Core	3	30	70	100	3	
	3MCA3	Research Methodology	4	30	70	100	4	
	3MCA4	Elective I	4	30	70	100	4	
	3MCA5	Elective II	4	30	70	100	4	
	3MCA6	Elective III	4	30	70	100	4	
	3MCA7	MINI PROJECT	8	30	70	100	4	
IV	21PS4.4	MAIN PROJECT	8	30	70	100	4	16
<b>Electives</b> <ul style="list-style-type: none"> <li>• Machine Learning</li> <li>• Big Data &amp; Analytics</li> <li>• Cryptography And Network Security</li> <li>• Cloud Computing</li> <li>• Web Programming</li> </ul>								



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### 3. Department Vision and Mission

**VISION:** To give quality individuals to the society as useful resources in nation building

**MISSION:** Empowering young minds to the changing needs





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## Programme Outcomes (POs):

On completion of MCA programme, the students are expected to,

PO1: Knowledge Application - Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.

PO2: Problem Solving - Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

PO3: Societal Uplifting - Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO4: Research Culture - Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Professional Approach - Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.

PO6: Situational Presence - Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

PO7: Leadership Qualities - Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary



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environments.

PO8: Communication Ability - Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

PO9: Impact Assessment - Assess the local and global impact of software solutions on individuals, organizations, and society.

P10: Career Excellence - Adopt standardized software engineering practices with innovative ideas to succeed as an employee or entrepreneur.



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## Program Specific Outcomes (PSO)

PSO1. An ability to practically use hardware and software and design and develop projects in emerging technology environments.

PSO2. Knowledge of data management system that helps in storing information for reference, reporting, and analysis. Database Management System helps in analysing large amounts of information and manage related data more efficiently.

PSO3. PowerPoint Presentations in classroom are conducted, to boost the confidence of the students and help them in their career by encouraging their communication (written, oral, and listening), presentation skills and teamwork.

PSO4. Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms

PSO5. Ability to interpret, understand and demonstrate understanding of the fundamental concepts and principles and working of the hardware and software aspects of computer systems.

PSO6. Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems. This results in the annual ICT magazine 'Connect' with contribution of papers, articles, quizzes, puzzles etc. from the students.

PSO7. The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.



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PSO8. The Computer Department organized an Information Security Awareness Workshop on 'Cyber Security and Cyber Crime: Counter Measures on December 16, 2014. This workshop helped students to augment their Communication and Collaboration skills, Critical Thinking and Problem-Solving capabilities, Creativity and Imagination and latest technical issues and initiatives.

PSO9. Group discussions on latest trending topics on 'Information and Communication Technology' to keep all the students technologically updated, increase their ICT knowledge and interest, develop their extempore, public speaking, group discussion and conversation skills, and building their confidence.

PSO10. Project-based learning (PBL) gives students the opportunity to explore problems and challenges that have real-world applications, increasing the possibility of long term retention of skills and concepts.

PSO11. Offline and Online projects on Computer Programming, Web Designing and Application Development help the students in the long run to prepare them for development as well as research work.

PSO12. Familiarity and practical proficiency with a broad area of programming concepts and provide new ideas and innovations through different Enrichment Courses.

PSO13. Think critically, follow innovations and developments in science and technology, demonstrate personal and organizational entrepreneurship and engage in lifelong learning in various subjects.

PSO14. Use of various digital technologies for creating resources and providing learning experiences for all types of learners. Moreover, use various ICTs for project based/problem-based constructivist learning.



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## Course Outcomes (COs):

Semester	Subject	Course Outcomes
I	The Art of Programming	<ol style="list-style-type: none"><li>1. To provide an insight of the basic concepts of algorithms and programming fundamentals and problem-solving techniques</li><li>2. Analyse basic programming syntax with knowledge to solve real time applications using modular approach.</li><li>3. Enable the students to determine the optimal solution to the problem.</li><li>4. Understanding the analysis and design of efficient algorithms</li><li>5. Analysing and implementing algorithms and implementation for standard mathematical problems</li></ol>
	Computer Organization and Architecture	<ol style="list-style-type: none"><li>1. Ability to Demonstrate an understanding of the design of the functional units of a digital computer system.</li><li>2. Ability to design of control unit and explain the instruction set, instruction formats.</li><li>3. Addressing modes of CPU</li><li>4. Ability to Recognize and manipulate representations of numbers stored in digital computers and perform Basic arithmetic Operations.</li><li>5. Ability to analyse memory hierarchy and its impact on computer cost/performance</li></ol>



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	Theory of Computation	<ol style="list-style-type: none"> <li>1. Outline the concept of Finite Automata and Regular Expression</li> <li>2. Able to analyse a given Finite Automata machine and find out its Language.</li> <li>3. Able to generate the strings/sentences of a given context-free languages using its grammar.</li> <li>4. Able to design Turing machines for given any computational problem.</li> <li>5. Be familiar with thinking analytically and intuitively for problem solving situations in related areas of theory in computer science</li> </ol>
	Object Oriented Programming	<ol style="list-style-type: none"> <li>1. Understand the basic oops concept, Java evaluation and implementation overview of java.</li> <li>2. Able to handle operators and expressions, decision making and branching, Decision making and looping.</li> <li>3. Able to understand classes and methods, array strings and vectors, interface concept instead of multiple inheritances.</li> <li>4. Understanding Packages of java, , managing errors and exceptions handling</li> <li>5. Understanding multithreaded programming contains synchronization. Able to develop software in the Java programming language, (application) perform applet programming designing HTML, graphic programming.</li> </ol>
	Data Structures	<ol style="list-style-type: none"> <li>1. Understand the concept of data and its types, ADT, algorithms, and Big O notation.</li> </ol>



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		<ol style="list-style-type: none"> <li>2. Understand basic data structures such as arrays, linked lists, stacks, and queues.</li> <li>3. Illustrate the process of hashing and collision resolution.</li> <li>4. Solve problems involving graphs, trees, and heaps.</li> <li>5. Apply solutions for solving problems like sorting, searching, and insertion.</li> </ol>
<b>II</b>	Operating Systems	<ol style="list-style-type: none"> <li>1. Explain the types of operating system and ability to create threads and perform interprocess communication.</li> <li>2. Understand CPU scheduling and able to solve process synchronization problems.</li> <li>3. Understand issues surrounding deadlock handling and memory management.</li> <li>4. Explain paging and segmentation methods suitable for virtual memory. Ability to manage files and directory.</li> <li>5. Be able to recovery and manage disk spaces. Knowledge of files systems and different types of OS.</li> </ol>
	Database Management Systems	<ol style="list-style-type: none"> <li>1. Understand fundamental concepts of DBMS and construct ER diagram for efficient Database design.</li> <li>2. Formulate solutions to a query problem using SQL commands, relational algebra and calculus using relational model.</li> <li>3. Analyse the given relation and normalize it to the desired normal form.</li> </ol>



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		<ol style="list-style-type: none"> <li>4. Implement transaction processing and recovery mechanism from transaction failures.</li> <li>5. Apply concurrency control protocols on transactions.</li> </ol>
	Computer Networks	<ol style="list-style-type: none"> <li>1. To learn about the primary components of a computer network.</li> <li>2. Understand the working layers of the OSI model and TCP/IP.</li> <li>3. To analyze practical aspects of communication in a network.</li> <li>4. Understand the design and working of protocols defined for different layers.</li> <li>5. Understand various routing algorithms defined for packet transmission.</li> </ol>
	Software Engineering	<ol style="list-style-type: none"> <li>1. To understand the fundamentals of project planning based on cost evaluation and to understand risk identification and management.</li> <li>2. To understand various tools for software design development and importance of quality of software.</li> <li>3. To know the principles and methodology for agile project management.</li> <li>4. To know the possibilities and methods of work with software tools using the agile project management.</li> <li>5. Scheduling and allocation of resources using agile methods in project management.</li> <li>6. Work with software development tools using agile methods in project management.</li> </ol>





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	<p>The Design and Analysis of Algorithm</p>	<ol style="list-style-type: none"> <li>1. Understand the algorithms and notation, including order notation, and how to analyse the complexity of the algorithms.</li> <li>2. Understand the concept of Hashing, B-tree, Arrays.</li> <li>3. Compare, contrast, and apply the key algorithmic design paradigms: Graph algorithms, divide and conquer, greedy method, dynamic programming techniques.</li> <li>4. Analysing the complexity of algorithms using Mathematical calculations and represent using asymptotic notations.</li> <li>5. To understand the concepts of Randomized, and exact vs. approximate. Implement, empirically compare, and apply fundamental algorithms and string matching, P, NP and NP complete real-world problems.</li> </ol>
	<p>Artificial Intelligence</p>	<ol style="list-style-type: none"> <li>1. To enable the students to understand the basic principles of Artificial Intelligence in various applications.</li> <li>2. Understand the informed and uninformed problem types and apply search strategies to solve them.</li> <li>3. Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.</li> <li>4. To understand the basics of AI techniques - intelligent agents, expert systems, artificial neural networks and other machine learning models</li> <li>5. To enrich knowledge to select and apply AI tools to synthesize information and develop models within constraints of application area</li> </ol>



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III	Softcore (Quantitative Teaching And Research Aptitude)	<ol style="list-style-type: none"> <li>1. Ability to understand the Quantitative Approaches to decision making and general method of solving quantitative problems.</li> <li>2. Ability to make well-informed hiring decisions, improving the efficiency and effectiveness of the recruitment process.</li> <li>3. Ability to learn Quantitative skills to use computational thinking and abstract language, work with algorithms, and accurately model real-world solutions.</li> <li>4. Understand teaching aptitude is the capacity to acquire proficiency with a given amount of training in teacher education.</li> <li>5. Ability to learn valuable life skills for life and class such as professionalism, time management, learning how to use online research tools.</li> </ol>
	Research Methodology	<ol style="list-style-type: none"> <li>1. To understand the basics of problem defining and formulation in research</li> <li>2. To understand the research process in detail</li> <li>3. To develop familiarity with some of the renowned tools used in research.</li> <li>4. To understand the structure of report writing</li> </ol>
	Elective I (Machine Learning)	<ol style="list-style-type: none"> <li>1. Understand the fundamental concepts of Machine Learning.</li> <li>2. Understand binary classification and Bayesian learning.</li> <li>3. Solve classification problems using concept learning and decision trees.</li> <li>4. Apply Linear and distance-based learning models.</li> </ol>



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		5. Analyse Genetic and Neural network algorithm
	Elective II (Big Data Analytics)	<ol style="list-style-type: none"> <li>1. Understand data, Big Data and its analytics in the real world, gathering of large data from different data sources.</li> <li>2. Analyse Big Data framework like Hadoop and its ecosystem to efficiently store and process Big Data to generate analytics.</li> <li>3. Overview of algorithms to solve Data Intensive Problems using Map Reduce Paradigm, Pig, Hive and HBase</li> <li>4. Brief overview on role of NOSQL tools and working with MONGODB.</li> <li>5. Know the recent research trends on Challenges in Big data analytics, Hadoop File System, analytical tools and algorithms.</li> </ol>
	<b>Elective III</b> (Cloud Computing)	<ol style="list-style-type: none"> <li>1. Understand the fundamental principles of cloud computing.</li> <li>2. Understand the importance of virtualization in cloud computing</li> <li>3. Understand the challenges of cloud computing services.</li> <li>4. Know the cloud computing platforms and to know their services.</li> <li>5. Understand the concepts such as privacy, security, performance, and economy in cloud computing</li> </ol>



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## Department of B.A

### Course Matrix

#### Department of History

Semester	Paper	Title	Number of Teaching Hours	Hours/Week Theory	Examination Pattern Max & Min. Marks/Paper		Total Marks/ Paper	Credits
					Theory			
					Written Test	IA		
I	DSC 1	Political history of Karnataka (BCE-300 to 1000 CE) Part-I	42	4	60	40	100	3
	DSC 2	Cultural Heritage of India	42	4	60	40	100	3
II	DSC 3	Political History of Karnataka (CE1000- CE 1750) Part-II	42	4	60	40	100	3
	DSC 4	Cultural Heritage of Karnataka	42	4	60	40	100	3



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## Department of Journalism

Semeste	Course	Title of the Papers	Teaching Hours	Hours/Week		Examination Pattern						Total Marks/Paper	Duration of Exams (Hours)		Credits			
				Theory	Practical's	Theory			Practical's				Theory	Practical	Theory	Practical's	Total	
						Max.	IA	Total	Max.	IA	Total							
		Introduction																
	OE-1	Writing for Computer	45	02	04	30	20	50	25	25	50	100	2	2	02	02	04	
		Application																
	OE-2	Photo Journalism	45	02	04	30	20	50	25	25	50	100	2	2	02	02	04	



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Department of Political Science

**Semester 1:**

**DSC-1**

Course Title: <b>Basic Concepts In Political Science</b>	
Total Contact Hours: <b>45</b>	Course Credits: <b>3</b>
No. of Teaching Hours/Week: <b>3</b>	Duration of ESA/Exam: <b>3Hours</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60+40=100</b>

**DSC-2**

Course Title: Political Theory	
Total Contact Hours: <b>45</b>	Course Credits: <b>3</b>
No. of Teaching Hours/Week: <b>3</b>	Duration of ESA/Exam: <b>3Hours</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60+40=100</b>



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## Semester 2:

### DSC-3

Course Title: <b>Western Political thought</b>	
Total Contact Hours: <b>45</b>	Course Credits: <b>3</b>
No. of Teaching Hours/Week: <b>3</b>	Duration of ESA/Exam: <b>3Hours</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60+40=100</b>

### DSC-4

Course Title: <b>Indian National Movement And Constitutional Development</b>	
Total Contact Hours: <b>45</b>	Course Credits: <b>3</b>
No. of Teaching Hours/Week: <b>3</b>	Duration of ESA/Exam: <b>3 Hours</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60+40=100</b>



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## Department of Psychology

Sl. No	Semester	Course Type	Title of the Paper	Total Hours	Hours per week	Course Components			Examination pattern and Marks/ Paper			Duration of Examination	Total Credits
						Lecture	Tutorial	Practical	CI E	E S E	Total		
1.	II	DSC C	Foundation of Psychology	52	4	3	1	-	40	60	100	3 hours	4
2.	II	DSC L	Practicals I	30	4	-	-	4	25	25	50	3 hours	2
3.	I	OE C	Psychology of Health and Wellbeing	45	3	2	1	-	40	60	100	3 hours	3
4.	II	DSC C	Foundation of	52	4	3	1	-	40	60	100	3 hours	4





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			Behavi Our										
5.	II	DSC L	Practic als 2	30	4	-	-	4	2 5	25	50	3 hours	2
6.	II	OE C	Youth Gender , and Identit Y	45	3	2	1	-	4 0	60	100	3 hours	3



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## Department of Tourism

### I Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	DSCT1	Fundamentals of Tourism Industry -A1	DSC	3+0+0	60	40	100	3
2.	DSCT2	Tourism Geography-A2(3)	DSC	3+0+0	60	40	100	3
Sub Total								6



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## II Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	DSC T3	Tourism Products and Resources (A3)	DSC	3+0+0	60	40	100	3
2.	DSC T4	Tour Operations Management(A4)	DSC	3+0+0	60	40	100	3
Sub Total								6



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## Department of Economics

### I Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	DSC1.2	Basic Economic Analysis I	DSC	3+0+0	60	40	100	3
2.	DSC1.3	Contemporary y Indian Economy	DSC	3+0+0	60	40	100	3
3	OEC 1.5	Kautilya's Arthashasthra	OEC	3+0+0	60	40	100	3
<b>Sub Total</b>								<b>9</b>



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## II Semester

Sl. No	Course Code	Title of the Course	Category of Course	Teaching Hours Per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1.	DSC 2.2	Introduction to Economic Analysis II	DSC	3+0+0	60	40	100	3
2.	DSC 2.3	Karnataka Economy	DSC	3+0+0	60	40	100	3
Sub Total								6



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## Department of Optional English

**Department Vision, Mission and PO, PSO and COs of all**

### Departments

#### Department of History

##### **Vision:**

The History Department seeks to make students aware of the past and its legacy via teaching, research, and extension activities in Indian history in the context of regional, national, and global history. We believe that only a critical grasp of the past can enable students to comprehend the present and look forward.

##### **Mission:**

1. Transform students into critical thinkers about the past and its implications for the present.
2. Encourage research in Karnataka history, society, and culture in general, and Karnataka history in particular.
3. Creating a syllabus that reflects the richness of India's past and its historical links with the world.
4. Encouraging our students via field trips and seminars to actively engage with the past, not as passive spectators but as participants.

Empower students to cope with the challenges of globalization by instilling in them a life-long passion for learning about the past. The knowledge about the interconnections between the global, national, regional and local history will equip the students to face the challenges with confidence.



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## Program Objectives:

1. To acquaint students with the past and present of India and the World.
2. Impart a critical understanding of Indian society, economy, polity, and culture through a historical perspective.
3. To prepare students for a range of careers
4. To stimulate intellectual curiosity and research attitude in the students'.
5. To introduce the various Indian and foreign traditions of history writing

## Program Specific Outcomes for Bangalore University Syllabus:

The following are the learning outcomes that we would like to see each History student graduate with:

Capacity to explain how and why important events happen.

1. Understanding of the historical method of study
2. A clear understanding of evidence collected from historical sources.
3. Critical understanding of developments in historiography
4. Knowledge of the history of the India and 20th Century Modern World
5. Informed familiarity with multiple cultures and diversity
6. Awareness of current historical debate
7. Understand the skills that historians use in research.



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## Course Outcomes for Bangalore University Syllabus:

### Semester 1: History of India - I

1. Provide knowledge on the culture of India during the pre-historic age.
2. To make them aware of the civic administration of ancient state
3. Evaluate the evolution of State formation.
4. Understand the idea and doctrines of Buddhism and Jainism and their contribution to the growth of literature and architecture.
5. Assess the foreign relations of ancient India with Greeks and Iranians

### Semester 2: History of India - II

1. To understand the impact of Arab's invasion on India
2. Analyze the background of the establishment of Delhi Sultanate in India and also to learn the developments in India during this period.
3. Evaluate the conquests, evaluation and policies of the Delhi Sultanate rulers
4. Understand the administrative and religious policies of the Delhi Sultans
5. To analyze the society and culture of Medieval India
6. To compile the policies, administration, society, culture and the economy of Medieval India





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## **Semester 3:** Karnataka, Society, Economy and Culture

1. Understand the unique historical trajectories of the people of Karnataka.
2. Understand Karnataka's uniqueness and culture specificity.
3. Analyze Karnataka's literary and religious history.
4. Analyze the national movements in Karnataka.

## **Semester 4:** History and Tourism in India

1. Understand tourism in India through historical way.
2. Analyze the history of tourism.
3. Understand the methods of tourism industry.
4. Understand history and tourism in Karnataka.

## **Semester 5:**

### **Paper 5:** History of Modern India

1. To understand the different theories of the European explorations and colonization of the Orient
2. Comparing the different policies and methods of the colonial administrators
3. Analyze the various Battles of the British to consolidate their colonial rule in India.
4. Evaluate the context of socio, economic, political, cultural and religious transition of India under the British colonial rule.
5. Reconstruct the colonial past of the ordinary people and their resistance and movement in the local levels.



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## **Paper 6: Europe History (1500-1945)**

1. Identify the political and Socio - economic developments in Modern Europe
2. Understand the rise of Nationalism in European countries.
3. Illustrate the factors leading to the rise and fall of historical personalities and their impact.
4. Estimate the role of regional and international organizations and their influence.
5. To infer the causes and consequences of the Wars, Revolutions and Conflicts

## **Semester 6:**

### **Paper 7 : India after Independence**

1. To understand the political developments and initial challenges of the Nation
2. To identify the economic policies and population problems
3. To identify social issues and welfare measures
4. To examine the scientific development and India's position in the technological advancement
5. To analyze the India's diverse culture and the impact of western culture

### **Paper 8: Contemporary World**

1. History of the world in a holistic manner but understanding the process through which histories of different areas are interlink with policies, politics, society and culture.
2. Apply trace and link the ideas, debate and practice of the contemporary society with that of the pre-war period.
3. Critically analyse the context in which the present global history is shaping up and link it to issues of environment genders.



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## Program Specific Outcomes for NEP History Syllabus:

1. Describe the social, economic, political, religious and cultural interest in a comprehensive study of the past.
2. Acquire knowledge of historical text sources and how historians interpret past.
3. Understand the basic themes concepts phonology in the scope of political and cultural history of Karnataka and cultural history of India.
4. Compare and contrast the major dynasty's art and architecture and literature of Karnataka.
5. Explain the positive and negative impacts and decline on culture.
6. Comparing contrast the dance forms music and heritage of India.
7. Develop research skills, write papers and demonstrate the ability to interpret on their own.
8. To prepare for various types of competitive exams.
9. Promote nation building activities peace regional National and international understanding into restore fruit relations.

## Course Outcomes for NEP History Syllabus:

### Semester 1

#### DSC1: Political history of Karnataka (BCE 300- CE 1200) Part I

1. Understand the continuity of political developments and strategies.
2. Analyze the importance of causes for the rise and regional political dynasties.
3. Understand contextual necessity is which influence the era of political supremacy.
4. Understand in describe the contemporary political history.



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## 5. Appreciate the conference of diverse political elements.

### DSC2: Cultural Heritage of India

1. Provide an insight into the extensive heritage of India.
2. Familiarizes Indian history in culture.
3. Analyze the factors responsible for origin and decline of culture.
4. Provide opportunity to understand the process of cultural development.

### Semester 2:

### DSC3: Political history of Karnataka (CE 1200- CE 1750) Part II

1. Understand rise and fall of political dynasties in Karnataka.
2. Familiarize with the patterns of administration.
3. Analyze the traditional values in ethos of political development.
4. Understand the rise and fall of regional variations.
5. Study the complex cities involved in quality of the time.

### DSC4: Cultural Heritage of Karnataka

1. Understand the concept of cultural heritage of Karnataka.
2. Study various cultural factors which influence the flow of culture.
3. Analyze the factors responsible for formation of pluralistic society.
4. Understand the concept of unity in diversity.



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## Department of Journalism

### **Vision:**

To educate, train and motivate students to develop the skills required to step into the ever-dynamic Media industry and to bridge the gap between theory and practice in Journalism education.

### **Mission:**

- To equip the students with the necessary skills required to work in the field of Mass communication and Journalism.
- To make students aware of their responsibilities as future Journalists
- To provide opportunities for students to network with industry professionals and motivate them through a series of interactions with the professionals.
- To make the students industry ready

### **Programme Specific Outcomes:**

PSO1: Equip students to develop writing and presentation skills for media-- news articles, blogs, vlogs, press releases, Ad copy.

PSO2: Acquaint students with the functioning of the media industry and the different roles in media.

PSO3: Appraise students to create, edit and design newspapers, shoot and anchor news bulletins and programmes.

PSO4: Appraise students to create Radio jingles, advertisements, short films and documentaries.



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## Semester 1: Introduction to Communication

CO1: Understand the meaning, definition, nature and scope of Journalism—Understand the qualities, duties, responsibilities and ethics of journalists. Understand and evaluate the role of journalism in the society.

CO2: Understand and analyse the history of journalism. Trace the development of journalism in India-development of Kannada journalism. Analyse the growth of press after independence.

CO3: Understand and apply the glossary of journalistic terms. Differentiate the various forms of journalism-branches of journalism-TV, broadcast, investigative, magazine journalism, community journalism, etc.

CO4: Analyse the theories of press and its relevance to the present day.

CO5: Write articles, features and editorials.

CO6: Write for the new media-create blogs.

## Semester 2: Computer applications for Media

CO1: Understand the evolution of computers—differentiate between hardware and software-understand files and folder management.

CO2: Create text, graphics, animation using the computer applications.

CO3: Create audio and video using the audio and video software. Create digital paper, blogs and podcasts.

CO4: Understand the definition, concepts and elements of multimedia. Understand visual communication.



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## **Semester 3: Audio Visual Media**

CO1: Understand and analyse a brief history of Radio, present status of Radio, FM radio and commercial radio

CO2: Analyse the types of Radio programmes, special audience programme.

CO3: Apply the principles of writing for Radio and develop radio scripts.

CO4: Explain the production techniques in TV and recent trends in TV broadcasting in India.

CO5: Analyse the new trends in Cinema; explain the brief history of Indian Cinema.

## **Semester 4: Media Laws**

CO1: Understand the concept of freedom of press—Press during emergency—Role of Journalism in the society.

CO2: Analyse Article 19 with case studies in India.

CO3: Discuss Defamation, Slander, Libel, Sedition, Obscenity, Censorship and Contempt of Court.

CO4: Understand Working Journalists Act, Official secrets act, Press Regulation Act.

CO5: Understand the Press Council of India, Press commissions.



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## Semester 5: Paper 5 Reporting

CO1: Discuss the news values—Examine the principles of news writing.

CO2: Analyse Lead—Types of lead and Types of news stories.

CO3: Understand the qualities of a Reporter—Beat Reporting, Freelancing and Correspondents.

CO4: Analyse and understand the types of Interview and styles of writing interview stories.

CO5: Understand Parliament reporting, sports, crime reporting and covering speeches and press conferences.

## Semester 5: Paper 6 Editing

CO1: Understand the concept of editing—functions of newsroom—different designations in editing.

CO2: Understand the principles of editing and translation.

CO3: Analyse the responsibilities of Editor, News Editor, Chief Sub and S UB-editor.

CO4: Compare different types of Headlines—Practise Headline writing.





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## **Semester 6: Media Management**

CO1: Understand the process of starting a newspaper—Structure of a newspaper organization.

CO2: Understand the types of newspaper ownership—Role of circulation and promotion.

CO2: Understand the procedure for starting of TV channel and Radio station—Organisational structure of TV and Radio.

CO4: Press tools—press conference, press release.

## **Semester 6: AD and PR**

CO1: Understand Advertising-Types of Ads—Role of advertising in the society.

CO2: Analyse the Ad agencies—understand the functioning of the ad agency.

CO3: Understand the nature and scope of PR—Distinguish between AD and PR, Public opinion and propaganda.

CO4: Analyse the PR tools.



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## Department of Political Science

### Vision:

The Department of Political Science endeavours to generate new knowledge & produce students who are trained in Political Science.

### Mission:

The Department of Political Science strives to pursue academic excellence in teaching, research, and extension.

### Programme Outcome:

- 1) Ability to enhance innovative approach of the student towards professions in
- 2) political science.
- 3) Ability to administer political institutions for humane development with
- 4) rational choice perspective.
- 5) Ability to develop leadership with public vision.
- 6) Ability to develop inclusive understanding of representation.



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## Programme Specific Outcome:

- 1) Enhance theoretical understanding and knowledge base in political sphere.
- 2) Enhance participation in local, state, national and international political
- 3) activities
- 4) Emerge as a successful political advisor, surveyor and political analyst.
- 5) Become political consultant to regional and national political parties and
- 6) government sectors.
- 7) Develop among the students to gender and environmental perspectives of
- 8) politics and political ideas.
- 9) Become a responsible citizen well informed in fundamental rights and obligations as well.

## Course Outcome:

### Paper 1: Basic Concept of Political Science

CO 1: Political Science, theoretically and will gain knowledge to explain and analyze politics at large.

CO 2: The dynamic of politics.

CO 3: To inculcate the democratic spirit.

CO 4: Develop an understanding about the nature and philosophy of political science and its interface with society.

CO 5: Enable the students to develop qualities of responsible and active citizens in a democracy.



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## **Paper 2: Political Theory**

CO 1: The nature and relevance of Political Theory.

CO 2: The different concepts like Liberty, Equality, Justice and Rights.

CO 3: To reflect upon some of the important debates in political theory.

CO 4: To introduce certain key aspects of conceptual analysis in political theory.

CO 5: To inculcate skills required to engage in debates surrounding the application of the concepts.

## **Paper 3: Public Administration: Core Concepts**

CO 1: Understanding the nature, meaning and importance of public administration.

CO 2: learning the qualities of leadership, communication skill and nature of management.

CO 3: understanding the personnel administration such as recruitment training and promotion.

CO 4: Analyze financial administration and process of budget.

CO 5: Critically analyze the recent trends in public administration with focusing on E- Governance, Public Private Partnership.



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## **Paper 4:** Western and Eastern Political Thought

CO 1: Focusing on the origin of state with emphasis to ancient political thinker: Plato and Aristotle.

CO 2: To understand the medieval political thought, with concentrating on the state and church relationship.

CO 3: To explain the concept of social contract theory illustrating on Hobbes, Locke and Rousseau theory of state.

CO 4: Analyze the socialist thinkers with special reference to Karl Marx and Lenin.

CO 5: Critically appreciate and analyze Indian Political Thought.

## **Paper 5:** Indian Constitutional- institutional Framework

CO 1: Understanding the evolution and major framework of Indian constitution.

CO 2: To analyze the democratic set up of parliamentary form of government.

CO 3: Critically analyze the nature and its constitutional status of president, Prime Minister, Chief Minister and Governor.

CO 4: Explain the uniqueness of Indian Judiciary.



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## **Paper 6: International Politics**

CO 1: Understanding the nature and importance of international politics and theories.

CO 2: Discuss National Powers and Instruments of foreign policies.

CO 3: Analysis the international Law and Huamn Rights.

CO 4: Undersatnding the importance and approaches to international peace.

## **Paper 7: Major Constitutional System**

CO 1: Effectively understanding the political system of United Kingdom.

CO 2: To analyze the role and functions of US Presiident and the upper house( Senate), which is the most powerful upper house in the world.

CO 3: Understanding the features of Russian Political System.

CO 4: To understand the concept of Direct Democracy with the classic example of Switzerland Political system.



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## **Paper 8:** International Institutions and Foreign Policy

CO 1: To understand the growth and evolution of International Organization.

CO 2: To evaluate the New International Order pertaining to the major issues and organization like SAARC, ASEAN and WTO.

CO 3: To discuss and critically analyze the foreign policy of major powers.

CO 4: To effectively understand the foreign policy of India.



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## Department Of Psychology

### Vision

To motivate the students in developing their talent, intellectual interest and creative abilities

### Mission

Realigning the maladaptive psyche and developing human resources to stimulate one and serve society.

### Program Outcomes of psychology teaching at UG are.

- PO 1: To define the science of psychology with its goals, modern perspective and the scope of Psychology in various different fields.
- PO 2: To Describe characteristics of basic psychological processes which include intelligence, Learning, memory and motivation.
- PO 3: To define Developmental psychology as a new branch of study with its Various Perceptions in the field of studying developmental psychology.
- PO 4: To describe major stages of life span development across human life.
- PO 5: To increase the knowledge about the psychological disorders and treatment outcome For final year students in abnormal psychology.
- PO 6: To enhance the industrial learning and to increase the sense of experience amongst Students through industrial teaching for final year students in industrial psychology.





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- PO 7: To train student for their career through practical exposure in psychological laboratory For 6 semester students.
- PO 8: To adapt & transfer research skills in students through projects which is given in each Semesters.
- PO 9: To Nurture and to equip students with aptitude, analytical skills in the course through Various assessment kits.
- PO 10: To develop the positive attitude towards the wellness of the society and to reconstruct a Maladaptive psyche.
- PO 11: To Increase the ability to identify and respect individual differences in human behaviour With intellectual knowledge and subject sensitive counselling skills.
- PO 12: To motivate students in developing their talent, intellectual interest and creative Abilities with deep understanding and hands-on experience with disciplines that explore The natural, social and cultural realms of behaviour.



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## Program Specific Outcomes

### Semester-wise Program Specific Outcomes (PSO) for Psychology for I, II, III, IV, V and VI semester on completion of BA- JOPy, students will be to

- PSO 1: Understand the science of psychology with basic psychological processes.
- PSO 2: Analyze developmental perspectives through various stages across life span.  
Development
- PSO 3: Determine cognitive, psychological, social, cultural, motor, language, emotional.  
Development across all stages of life span
- PSO 4: Understand various psychological disorders, myths and misconceptions and models of Abnormality with various treatment procedures.
- PSO 5: Observe industrial and organizational behaviour in workplace with various criteria's like Job analysis and selection, employee attitudes and their effect, motivation and reward System, consumer psychology.
- PSO 6: Apply theoretical aspects of the learning through practical lab experiments and to  
Assess the individual's psychological well-being through various psychological testing.



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## Course Outcomes

### Semester I & II

#### Chapter specific outcomes for psychology

#### Paper I & II- Basic Psychological Processes

- CO 1: Describe psychology in various forms and classify it into different fields with major. Types of psychological research
- CO 2: Analyze basic psychological processes like intelligence, learning, memory and motivation.
- CO 3: To create distinctive approaches in learning many motivational theories.
- CO 4: To Evaluate Biology and Behaviour with an overview of nervous system and to Understand techniques to study the brain.
- CO 5: To apply and to understand various processes involved in sensation and perception.
- CO 6: To classify and to understand various forms of thinking.
- CO 7: Identify and describe the elements of emotions.
- CO 8: To analyze the theories of emotions and to understand positive psychology movement.
- CO 9: To display different approaches to the study of personality by describing various. Definitions of personality
- CO 10: Observing measurement of personality through various methods to study.



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## Practical's I & II Semester

- CO 1: To study the effect of cueing on recall.
- CO 2: To study the effect of suggestion on the accuracy of report.
- CO 3: To study negative transfer of training with the help of card sorting.
- CO 4: To study the effect of chunking on recall.
- CO 5: To study bilateral transfer through mirror drawing.
- CO 6: To study the subject's ability to detect signals.
- CO 7: To determine the Stroop effect.
- CO 8: To determine the extent of Muller-lyer illusion by the method of average error.
- CO 9: To measure the retinal colour zones of right eye of the subject, for red, green, yellow And blue colours.
- CO 10: To study the difference between trial and error learning and learning by insight.
- CO 11: Project- Moti Quiz 25 to 30 yrs. working professional (men & women)
- CO 12: Statistics- To measure central tendency mean, median and mode for ungrouped and Grouped data with only frequency (no class intervals) both long & short method.



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## Semester III & IV

### Paper III & IV- Developmental Psychology

- CO 1: To develop an ability to understand developmental psychology in a broader Perspectives with major concentration on stages of life span development
- CO 2: To analyze biological beginnings and to understand mechanisms of heredity.
- CO 3: To appreciate the process of prenatal life with its stages of development by Studying birth process and methods of delivery
- CO 4: To describe various developmental perspectives in infancy period.
- CO 5: To analyze early and late childhood period by observing through various. Developments
- CO 6: Critically analyze puberty and adolescence.
- CO 7: Describe early adulthood by analysing physical, cognitive and psycho-social. Development
- CO 8: Effectively analyze and describe physical, cognitive and psycho-social. Development in middle adulthood
- CO 9: Apply physical, cognitive and psychosocial development to late adulthood.
- CO 10: Appreciate late adulthood part 2 by understanding many faces of death and by Analysing meaning and purpose in life and death



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## Practical's III & IV Semester

- CO 1: To assess the problem areas of the subject using college student problem checklist.
- CO 2: To study the associative strength of common stimulus words.
- CO 3: To assess learning preferences of the subject using the learning styles inventory.
- CO 4: To study the effect of meaningfulness of stimulus – response relationship on the Formation of associations
- CO 5: To determine the level of creativity (verbal & non-verbal) using a creativity test based on Wallach-kogan creativity test.
- CO 6: To assess the self-concept of the subject.
- CO 7: To study the process of concept formation by promoting method using a concept. Formation test based on Haufman and Kasanin test.
- CO 8: To determine the subject's two-point threshold, on the ventral forearm, using the Method of constant stimulus differences
- CO 9: To study experimentally the effect of perception of size on judgment of weights.
- CO 10: To assess the Emotional intelligence of the subject.
- CO 11: Project- learning styles 16-20 yrs. boys & girls (5boys + 5girls from BA compared with 5boys + 5girls from B.com) compare learning styles of students from any two faculties.
- CO 12: Statistics- To measure SD grouped & Ungrouped data and to find out significance. Difference between means- Sem



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## Semester V

### Paper V & VI- abnormal Psychology & Industriel Psychology

- CO 1: To develop an ability to understand abnormal psychology in a broader perspective.  
With defining criteria of abnormality
- CO 2: To analyze psychological models of abnormality.
- CO 3: To understand and analyze stress and mental health.
- CO 4: To describe effectively and to know various anxiety based disorders with proper.  
Therapeutic interventions
- CO 5: To describe somatoform and dissociative disorders with general causes and  
Symptoms.
- CO 6: Define and understand industrial and organizational psychology briefly with history and Theoretical  
studies.
- CO 7: Understand and analyze job analysis and selection with different types of interviews.
- CO 8: Effectively analyze and describe employee attitudes and their effects in understanding job Satisfaction.
- CO 9: Evaluate motivation and reward systems.
- CO 10: Appreciate and Analyze consumer psychology with nature and scope of advertising.



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## Practical's V & VI Semester

- CO 1: To assess the personality dimensions of the subject using Eysenck's personality Inventory
- CO 2: To assess a person's characteristic behaviour towards other people in the areas of Inclusion, control and affection
- CO 3: To assess the personality of the subject using type A/B behavioural pattern scale.
- CO 4: To study the internal-external locus of control orientation in the subject.
- CO 5: To assess the hierarchy of values in the personality of the subject using personal values Questionnaire. (PVQ)
- CO 6: To assess the verbal, numerical, spatial, clerical and closure ability of the subject using DBDA (David's battery of differential abilities)
- CO 7: To assess the reasoning, mechanical and psycho-motor ability of the subject using DBDA (David's battery of differential abilities)
- CO 8: To measure manual dexterity of the subject by administering Minnesota rate of Manipulation test (MRMT)
- CO 9: To assess the interest of the subject by using comprehensive interest schedule by sanjya vohra
- CO 10: To administer O'connor tweezer dexterity test and interpret the time scores with the Help of norms.
- CO 11: Project- Bell's adjustment inventory- 25 to 30 yrs. working professional.
- CO 12: Statistics- To measure and understand "t" test in different way.





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## Semester VI

### Paper VII & VIII- Abnormal Psychology & Industrial Psychology

- CO 1: Critically analyze, classify and describe personality disorders into its varies types.  
According to DSM 4 TR
- CO 2: Understand and analyze with symptoms, types and general causes of schizophrenia and Paranoia.
- CO 3: Effectively analyze and describe mood disorders according to DSM-V TR
- CO 4: Evaluate brain disorders and cognitive impairments.
- CO 5: Appreciate and Analysing therapeutic aspects of psychology with various therapies from Schools of psychology.
- CO 6: Critically describe, analyze and understand performance appraisal with various types and Bias in PA
- CO 7: Describe training and development and analyze different methods of training.
- CO 8: Effectively define managing communications and analyze different types of  
Communications
- CO 9: Define leadership, team work and team building with nature, styles and life cycle of team.
- CO 10: Analyze and understand stress and counselling with focusing on employee counselling.



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## Practical's VII & VIII Semester

- CO 1: To assess the guidance needs of the subject using GNI developed by JS Grewal
- CO 2: To determine the level of adjustment of the subject using Bell's Adjustment Inventory
- CO 3: To assess presence of psychological morbidity in the subject using GHQ.
- CO 4: To assess the level of anxiety through anxiety scale self-analysis form: IPAT Anxiety scale By questionnaire by Samuel Krug, Ivan Scheuer and Reymond B Cattell
- CO 5: To assess the degree of assertiveness of the subject using Rathus assertiveness scale.
- CO 6: To measure the attitude of the subject towards different areas using sodhi's attitude. Scale
- CO 7: To determine the level of intelligence or capacity for perceptual accuracy analytical. Reasoning of the subject
- CO 8: To administer each sub-test according to the instructions, to score the performance. And to convert the raw score into IQ
- CO 9: To assess the general mental ability of the subject and the group, using the group test Of general mental ability by Jalota and Tandon
- CO 10: To determine the emotional maturity of the subject using emotional maturity scale. Developed by Dr. Yashvir singh and Mahesh Bharghav
- CO 11: Project- Assertiveness 25 to 30 yrs working professional (men & women)
- CO 12: Statistics- To measure "chi-square" in 2 different ways.



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**POs-PSOs- COs BU as well as NEP (and Autonomous) along with Syllabus copy and Metrix for attainment**

**2021-22**

**Department of Psychology (Autonomous)**

**Program Outcomes of psychology teaching at UG are.**

- PO 1: To define the science of psychology with its goals, modern perspective and the scope of Psychology in various different fields.
- PO 2: To Describe characteristics of basic psychological processes which include intelligence, Learning, memory and motivation.
- PO 3: To define Developmental psychology as a new branch of study with its Various Perceptions in the field of studying developmental psychology.
- PO 4: To describe major stages of life span development across human life.
- PO 5: To increase the knowledge about the psychological disorders and treatment outcome For final year students in abnormal psychology.
- PO 6: To enhance the industrial learning and to increase the sense of experience amongst Students through industrial teaching for final year students in industrial psychology.
- PO 7: To train student for their career through practical exposure in psychological laboratory For 6 semester students.
- PO 8: To adapt & transfer research skills in students through projects which is given in each Semesters.



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- PO 9: To Nurture and to equip students with aptitude, analytical skills in the course through Various assessment kits.
- PO 10: To develop the positive attitude towards the wellness of the society and to reconstruct a Maladaptive psyche.
- PO 11: To Increase the ability to identify and respect individual differences in human behaviour With intellectual knowledge and subject sensitive counselling skills.
- PO 12: To motivate students in developing their talent, intellectual interest and creative Abilities with deep understanding and hands-on experience with disciplines that explore The natural, social and cultural realms of behaviour.



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## Program Specific Outcomes

**Semester-wise Program Specific Outcomes (PSO) for Psychology for I, II, III, IV, V and VI semester on completion of BA- Psychology, students will be to**

- PSO 1: Understand the science of psychology with basic psychological processes.
- PSO 2: Analyze developmental perspectives through various stages across life span.  
Development
- PSO 3: Determine cognitive, psychological, social, cultural, motor, language, emotional.  
Development across all stages of life span
- PSO 4: Understand various psychological disorders, myths and misconceptions and models of Abnormality with various treatment procedures.
- PSO 5: Observe industrial and organizational behaviour in workplace with various criteria's like Job analysis and selection, employee attitudes and their effect, motivation and reward System, consumer psychology.
- PSO 6: Apply theoretical aspects of the learning through practical lab experiments and to  
Assess the individual's psychological well-being through various psychological testing.



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## Course Outcomes

### Semester I & II

#### Chapter specific outcomes for psychology

#### Paper I & II- Foundations of psychology- I & II

- CO 1: To Describe psychology with its goals in various forms and classify it into different fields with major Types of psychological research.
- CO 2: Analyze basic psychological processes like intelligence, learning, memory and motivation.
- CO 3: To create distinctive approaches in learning many motivational theories.
- CO 4: To Evaluate Biology and Behaviour with an overview of nervous system and to Understand techniques to study the brain.
- CO 5: To apply and to understand various processes involved in sensation and perception.
- CO 6: To classify and to understand various forms of thinking.
- CO 7: Identify and describe the elements of emotions.
- CO 8: To analyze the theories of emotions and to understand positive psychology movement.
- CO 9: To display different approaches to the study of personality by describing various.  
Definitions of personality
- CO 10: Observing measurement of personality through various methods to study.



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## Practical's I & II Semester

- CO 1: To study the effect of cueing on recall.
- CO 2: To study the effect of suggestion on the accuracy of report.
- CO 3: To study negative transfer of training with the help of card sorting.
- CO 4: To study the effect of chunking on recall.
- CO 5: To study bilateral transfer through mirror drawing.
- CO 6: To study the subject's ability to detect signals.
- CO 7: To determine the Stroop effect.
- CO 8: To determine emotional intelligence.
- CO 9: To determine the extent of Muller-Lyer illusion by the method of average error.
- CO 10: To measure the retinal colour zones of right eye of the subject, for red, green, yellow And blue colours.
- CO 11: To study the difference between trial and error learning and learning by insight.
- CO 12: To study general mental ability.
- CO 13: To determine the level of intelligence.
- CO 14: Project- Moti Quiz 25 to 30 yrs. working professional (men & women)
- CO 15: Statistics- To measure central tendency mean, median and mode for ungrouped and Grouped data with only frequency (no class intervals) both long & short method.



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## Semester III & IV

### Paper III & IV- Child Development & Developmental Psychology

- CO 1: To develop an ability to understand developmental psychology in a broader Perspectives with major concentration on stages of life span development
- CO 2: To analyze biological beginnings and to understand mechanisms of heredity.
- CO 3: To appreciate the process of prenatal life with its stages of development by Studying birth process and methods of delivery
- CO 4: To describe various developmental perspectives in infancy period.
- CO 5: To analyze early and late childhood period by observing through various. Developments
- CO 6: Critically analyze puberty and adolescence.
- CO 7: Describe early adulthood by analysing physical, cognitive and psycho-social. Development
- CO 8: Effectively analyze and describe physical, cognitive and psycho-social. Development in middle adulthood
- CO 9: Apply physical, cognitive and psychosocial development to late adulthood.
- CO 10: Appreciate late adulthood part 2 by understanding many faces of death and by analysing meaning and purpose in life and death





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## Practical's III & IV Semester

- CO 1: To assess the problem areas of the subject using college student problem checklist.
- CO 2: To study the associative strength of common stimulus words.
- CO 3: To assess learning preferences of the subject using the learning styles inventory.
- CO 4: To study the effect of meaningfulness of stimulus – response relationship on the Formation of associations
- CO 5: To determine the level of creativity (verbal & non-verbal) using a creativity test based on Wallach-kogan creativity test.
- CO 6: To assess the self-concept of the subject.
- CO 7: To study the process of concept formation by promoting method using a concept. Formation test based on Haufman and Kasanin test.
- CO 8: To determine the subject's two-point threshold, on the ventral forearm, using the Method of constant stimulus differences
- CO 9: To study experimentally the effect of perception of size on judgment of weights.
- CO 10: To assess the Emotional maturity of the subject.
- CO 11: To assess the social maturity of the subject.
- CO12: To screen mental health status of the subject.
- CO13: To determine life satisfaction of the subject.
- CO 14: Project- learning styles 16-20 yrs. boys & girls (5boys + 5girls from BA compared with 5boys + 5girls from B.com) compare learning styles of students from any two faculties.



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- CO 15: Statistics- To measure SD grouped & Ungrouped data and to find out significance.  
Difference between means- Sem

## Department of Tourism

### Vision

To impart knowledge & the education for higher learning and career planning among students.

### Mission

To develop and mould students with required tourism skills to join the industry as competent professionals.



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**POs-PSOs- COs BU as well as NEP (and Autonomous) along with Syllabus copy and Metrix for attainment**

**2021-22**

**Program Outcomes of Tourism teaching at UG (Bangalore University) are.**

- PO 1: Understand the basic concepts and theory of Tourism.
- PO 2: To interpret the fundamental principles of essential tourism business functions.
- PO 3: Identify and analyze historical events and their effects on the development of the tourism.
- PO 4: To Develop a deeper appreciation of Tourism subject.
- PO 5: To apply principles of Tourism, marketing and sales to business situations through case studies or internships.
- PO 6: Demonstrate ability to perform basic and supervisory level job functions in tourism and hospitality careers.
- PO 7: To describe the socio-cultural, environmental and cultural factors of tourism and how they influence hospitality, leisure, travel, sustainability, and recreational activities.
- PO 8: Assess the leadership, managerial and human relations skills within the Tourism industry.
- PO 9: Evaluate the organization and function of the hospitality industry at the end of the three year program
- PO 10: Analyze laws affecting the tourism industry.



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- PO 11: Evaluate the tourism policies of India.
- PO 12: An ability to function effectively on multi-disciplinary teams.



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## Program Specific Outcomes

**Semester-wise Program Specific Outcomes (PSO) for Tourism for I, II, III, IV, V and VI semester BU as well as I & II Semester NEP (and Autonomous on completion , students will be to**

- PSO 1: Understand the basic meaning, Scope, Importance and Nature of Tourism as an industry.
- PSO 2: Critically analyze the origin of travel agency business and different types of travel agencies.
- PSO 3: Acquaint with range of prospects and issues related to various tourism policy analysis in India and tourism planning.
- PSO 4: Understand and evaluate the complexities of development of Tourism in India.



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## Course Outcomes

### Semester I

#### Chapter specific outcomes for Tourism

##### Paper I: Tourism- Foundation and history

- CO 1: Understand the meaning, nature, scope and components of tourism.
- CO 2: Identify the importance and types of tourism.
- CO 3: Evaluate the development of tourism since ancient times till modern age.
- CO 4: Understand the growth and development of tourism as an industry since the beginning.
- CO 5: Explain the effects of World economic depression and French revolution on tourism.
- CO 6: Identify the working of various international tourism organizations.



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## Semester II

### Chapter specific outcomes for Tourism

#### Paper II: Tourism Product

CO1: Understand the meaning and types of tourist resources with special reference to natural and mountain resources.

CO2: Identify the importance of water bodies and deserts of India such as Islands and beaches with special reference to Lakshadweep, Andaman and Goa

CO3: Evaluate the socio-cultural resources with reference to handicrafts, learning centres, classical dance forms and music of India, handicrafts etc.

CO4: To classify and understand various forms of Fairs and festivals of India.

CO5: To understand Indian Folk culture-Customs and costume settlement patterns, Religious observations, folk lore and legends.

CO6: Evaluate the development of architectural styles adopted over the ages and importance of various historical monuments and various religious shrines of India



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## Semester III

### Chapter specific outcomes for Tourism

#### **Paper III:** Travel Agency and Tour Operator Organizations

- CO 1: Understand the meaning, functions and organizational structure of travel agencies and tour operators.
- CO 2: Classify travel agencies.
- CO 3: Evaluate the duties and responsibilities of travel agencies staff and managers.
- CO 4: Understand the concepts of airline ticketing and fare calculation.
- CO 5: Give a brief study of international and Indian railway system.
- CO 6: Highlight the advent of airlines in India.
- CO 7: Acquire knowledge about the various international travel regulations.





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## Semester IV

### Chapter specific outcomes for Tourism

#### **Paper IV: Tourism Management**

CO1: Describe the characteristics of modern tourism and means of accommodation.

CO2: Describe the role of marketing and promotional mix in tourism.

CO 3: Discuss the role of CRM, PR and communication in Tourism.

CO 4 : Identify the various forms of accommodation.

CO 5 : To classify hotels and basis of room rate, billing and reservation procedures.

CO 6: To understand the importance and its impact on Transportation industry.

CO 7: To develop marketing strategies for various service firms.



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## Semester V

### Chapter specific outcomes for Tourism

#### **Paper V: Tourism Policy**

- CO 1: To Critically analyse the various tourism management strategies.
- CO 2: Discuss the measurement in Tourism statistics.
- CO 3: Identify the various tourism policies of India.
- CO 4: Explain the features of tourism planning.
- CO 5: Analyse the impact of tourism on national and international economic activity
- CO 6: Critically recognize the various Social, Political, Economic and Cultural impacts of tourism.
- CO 7: Understand the study of various World Heritage Centres of India



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## Semester V

### Chapter specific outcomes for Tourism

#### Paper VI: Tourism in India

- CO 1: Understand the history of tourism in India.
- CO 2: Justify India – A land of all reasons and all seasons.
- CO 3: Identify the various tourism resources of India.
- CO 4: Demonstrate the various means of promotion of tourism in India.
- CO 5: Analyze the defects of accommodation sector in India.
- CO 6: Critically recognize the various institutional bodies of tourism in India.
- CO 7: Give a detailed study on India airways and Indian railways.
- CO 8: Identify the reasons for unsatisfactory transportation levels in India.



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## Semester VI

### Chapter specific outcomes for Tourism

#### **Paper VII:** Entrepreneurship Development Program

CO 1 : Describe entrepreneurship and importance of Entrepreneur.

CO 2 : Examine the Role of SSIs in the development of Indian Economy

CO 3: Describe the steps to establish an enterprise.

CO 4: Compare and classify types of entrepreneurs.

CO 5 : Discuss the steps to prepare the business plan.

CO 6 : Describe Special institutions for entrepreneurial development and assistance in India.

CO 7: Explain the causes of industrial sickness.



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## Semester VI

### Chapter specific outcomes for Tourism

Paper VIII: Emerging Concepts and Approaches for Effective Tourism Development

CO 1: Describe the approaches for effective tourism development.

CO 2: Explain sustainable and Ecotourism.

CO 4: Discuss about Wildlife

CO 5: Evaluate the tourism policies of India.

CO 6: Describe the fundamentals of CRM, PR in tourism.



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## NEP Syllabus (Autonomous)

### Semester I

**Course Title:** Fundamentals of Tourism Industry

#### Chapter specific outcomes for Tourism

CO 1: To get an overview of the history and concepts of tourism.

CO 2: To understand the various components of tourism.

CO 3: To identify the emerging trends in tourism industry.

CO 4: To grasp the various forms and types of tourism.

CO 5: To be acquainted with the tourism business.

CO 6: To be familiarized with tourism in India.



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## Semester II

**Course Title:** Tourism Geography

### Chapter specific outcomes for Tourism

CO 1: To familiarize the students with aspects of tourism which have a relation with the subject matter of Geography.

CO2: To equip the students with the Knowledge of Tourism geography.

CO 3: To lay emphasis on the importance of geography in travel and tourism.

CO 4: To be familiar with major tourism destinations in India.

CO 5: To provide the concept and types of geography related to tourism in India.

## Semester II

**Course Title:** Tourism Products and Resources

### Chapter specific outcomes for Tourism

CO 1: To be able to define and differentiate Tourism Resources and Products.

CO 2: An understanding of Tourism Resources and Products of India.

CO 3 : The ability to explain the natural attractions of India.

CO 4: To identify the art and architecture of monuments in Karnataka.



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CO 5: To highlight the Major concepts of Tourism related to the activities concerned.

**Course Title:** Tour Operations Management

## **Chapter specific outcomes for Tourism**

CO 1: An understanding of the travel trade business.

CO2: To know the History and Growth of Travel Agency.

CO 3: An ability to describe the role and functions of tour operators.

CO 4: An understanding of the tour packaging and itinerary preparation.

CO 5: Familiarize the Package for FIT, GIT.

CO 6: An understanding of the role and importance of tour guides and guiding.

CO 7 : An understanding of the travel procedures and the documents travel abroad.





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## Department of Economics

### Vision

To become the educational Institution of preferred choice by ushering the convergence of knowledge, skills and values through holistic education

To create an Integrated system that meets higher educational needs of the region and Community at large.

To be efficient, effective community and be able to and excel in education and service.

To impart knowledge and interact with organization of similar interest to meet global competency To induce paradigm shift in community that education is pre-requisite for human development inculcate the

### Mission

To "Mould Character and Careers" Of Students

Develop adaptability to technological skills, to meet the challenges of changing global villa.

Continuous improvement and innovation in all the process of our system

Open organizational climate

Inter organizational linkage with institutions of similar interest.



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Strategic future oriented planning.

Community oriented skills and research

Strong community relationships.

## PO,PSO & COs

PO1	Understand the fundamental basic concepts of economics and the dynamic working Different economies of the world.
PO2	The course is tailor-made for young aspirants in the Domain of economics by drawing rich academic inputs from contemporary syllabus Reflecting recent developments.
PO3	Under-graduate economics programmes help Students to establish in-depth understanding of the functioning of domestic and global Economies and to develop the necessary and portable skills to perform economic analysis for Both public and private sector positions as well as for graduate studies in related fields.
PO4	Understanding the efficiency and equity implications of market Interference, including government policy.



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## Programme Specific Outcomes

On successful completion of the B.A. Economics program, the students are able to.

PSO1	Build strong foundation for pursuing continuous learning.
PSO2	Graduates will get a solid foundation of fundamentals required to solve Socioeconomic problems and also to pursue higher studies.
PSO3	Expand skills in practical application of economic theory.
PSO4	Possess an ability to offer alternative solution on policy issues and Review various economic policies adopted.
PSO5	Demonstrate the ability to analyse, interpret and draw valid conclusions from quantitative and qualitative data.
PSO6	Communicate effectively on specific economic issues and present complex information in a clear and concise manner.
PSO7	Have the Capacity to analyse and evaluate the current events from an economic perspective.
PSO8	Nurture the spirit of leadership qualities and readiness to work and learn.



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PSO9	Evaluate the pricing decisions under different market structures.
PSO10	Boost the spirit of self-confidence and inculcate the spirit of moral values.

## Course Outcomes.

**Course Title:** DSC. 1.2 Introduction to Basic Economic Analysis –I

**By the end of the course the student will be able to:**

- CO1 Identify the facets of an economic problem.
- CO2 Learn basic economic concepts and terms.
- CO3 Explain the operation of a market system.
- CO4 Analyse the production and cost relationships of a business firm.
- CO5 Evaluate the pricing decisions under different market structures.
- CO6 Use basic cost-benefit calculations as a means of decision making.



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**Course Title:** DSC 1.3: Contemporary Indian Economy

**At the end of the course the student should be able to:**

- CO1. Understand the current problems of Indian Economy
- CO2. Identify the factors contributing to the recent growth of the Indian economy.
- CO3. Evaluate impact of LPG policies on economic growth in India.
- CO4. Analyze the sector specific policies adopted for achieving the aspirational goals.
- CO5. Review various economic policies adopted.

**Course Title:** DSC 2.2: Introduction to Economic Analysis II

**At the end of the course the student should be able to:**

- CO1. Understand the operation of the overall economic system.
- CO2. Calculate national income and related aggregates.
- CO3. Explain the relationship between macroeconomic aggregates.
- CO4. Analyse the nature of business cycles and policies towards controlling them.
- CO5. Evaluate the macroeconomic policies for solving major problems like poverty and unemployment.

**Course Title:** DSC 2.3: Karnataka Economy

**At the end of the course the student should be able to:**

- CO1. Understand the nature of economic growth and problems of Karnataka state.
- CO2. Explain the process of structural growth in Karnataka economy.
- CO3. Evaluate the policies and programmes undertaken by the Govt. Of Karnataka for bringing about socio-economic development



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## **3<sup>rd</sup> Semester: Monetary Economics**

CO1.To provide student with the opportunity to focus on applied and policy issue in economics.

CO2.To provide the students with the opportunity to pursue course that emphasize quantitative and theoretical aspects of economics.

## **4<sup>th</sup> Semester: Public Economics**

CO1.To provide programmers that allow the students to choose from wide range of economic specialization.

CO2.Provide students with the resources and experience to understand and evaluate claims about how and why the economic world change.

## **5<sup>th</sup> Semester: Corporate Economics**

CO1. To provide and adapt curricular that prepare our graduates for employment and further study as economists.

CO2.Provide training in economics history to the level where students can marshal economic arguments and analyse economic evidence in making such claims.

CO3.Prepare students for careers requiring the use of economic arguments and analysis.

## **5<sup>th</sup> Semester: Optional Paper: Rural development and Co operation**

CO1.A sound grasp of the theoretical principles and application techniques of economics.

CO2.An ability to apply their economic knowledge to a range of contemporary and historical economic problems.

CO3.An appreciation of the complexity of reconstructing the past and understanding present economic problems and the problematic nature of evidence.

## **6<sup>th</sup> Semester: Economics of Human Resource Management**

CO1.Provide student with knowledge of quantitative techniques appropriate for the analysis of economic data.

CO2.Provide with student with a sound grasp of the principles of economic analysis to the intermediate level.

CO3 A substantial body of economic history knowledge involving both breadth and depth.



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**6<sup>th</sup> Semester:** Optional Paper: Karnataka Economy

CO1. Prepare students for graduate study in economic history or economics.

CO2. Combine economics at the master level with analytical in the management area.

CO3. Prepare students for Ph.D. level study in management or careers in industry, finance and consulting.

**Course Title :** DSC 3.1 Microeconomics

**After the successful completion of the course, the student will be able to:**

CO1. Understand introductory economic concepts.

CO2. Recognize basic supply and demand analysis.

CO3. Recognize the structure and the role of costs in the economy.

CO4. Describe, using graphs, the various market models: perfect competition, monopoly, monopolistic Competition, and oligopoly.

CO5. Explain how equilibrium is achieved in the various market models.

CO6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed In the course.

**Course Title Mathematics for Economics**

**After the successful completion of the course, the student will be able to:**

CO1. Perform basic operations in Sets and functions and Matrix algebra.

CO2. Calculate limits, derivatives of Economic functions and identify the nature of relationship.

CO3. Calculate maxima and minima of function.



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## Department of M.Sc (Psychology)

### Course Matrix

Subjects	Paper	Instruction Hrs/week	Duration of exam (Hrs)	Marks			Credits
				IA	Exam	Total	
<b>I Semester PG Program</b>							
<b>Core Subject</b>	101- Theoretical Perspectives of Psychology	4*4	4*3	4*30	4*70	4*100	4*4
	102- Indigenous Psychology						
	103-Biopsychology						
	104- Quantitative Research Methods and Psychometry	2*8	2*6	2*30	2*70	2*100	2*4
	105- Experimental Psychology- Psychophysics, Cognition, Memory and learning (Practical 1)						
	106- Computer Application (Practical 2)						
<b>Soft Core</b>	107-Statistics in Psychology	1*3	1*3	1*30	1*70	1*100	1*2
<b>Semester Total of Credits</b>							<b>26</b>





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II Semester PG Program							
<b>Core Subject</b>	201- Personality Psychology	4*4	4*3	4*30	4*70	4*100	4*4
	202- Counselling and Guidance						
	203- Cognitive Psychology						
	204: Qualitative Research Methods						
	205- Psychological Assessment and Life Skills Training	2*8	2*6	2*30	2*70	2*100	2*4
	206- Project: Psychometric Tool Development						
<b>Soft Core</b>	207- Theories of Learning	1*3	1*3	1*30	1*70	1*100	1*2
				<b>Semester Total of Credits</b>			<b>26</b>



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Subjects	Paper	Instruction Hrs/week	Duration of exam (Hrs)	Marks			Credits	
				IA	Exam	Total		
<b>III Semester PG Program</b>								
	301 Positive Psychology	1*4	1*3	1*30	1*70	1*100	1*4	
	<b>Specializations</b>							
	<b>A: Clinical Psychology</b>							
<b>Core Subject</b>	302A: Clinical psychology and assessments	2*4	2*3	2*30	2*70	4*100	4*4	
	303A: Developmental Psychopathology							
	305A Practical I: Clinical Cognitive assessment	2*8	2*6	4*30	2*30	2*70		
	306A Practical II : Clinical personality assessments and interventions							
	<b>B: Child Guidance</b>							
	302 B Child Development	2*4	2*3	2*30	2*70	4*100		
	303 B Child assessment							
	305 B Assessment of cognition, screening and interventions	2*8	2*6	4*30	2*30	2*70		
	306 B Practical's: Assessment of personality and skill training							



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C: Industrial and organizational Psychology						
	302C: Organizational Behaviour I – A micro perspective	2*4	2*3	2*30	2*70	4*100
	303C: Organizational Behaviour II – A Macro perspective					
	305C :Assessments and interventions in organizations	2*8	2*6	4*30	2*30	2*70
	306C: Assessment of personality and interests					
<b>Soft Core</b>	304 Open elective Psychology for life	1*4	1*3	1*30	1*70	1*100
		<b>Semester Total of Credits</b>				<b>24</b>



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Subjects	Paper	Instruction Hrs/week	Duration of exam (Hrs)	Marks			Credits		
<b>IV Semester PG Program</b>									
<b>Core Subject</b>	401 Rehabilitation Psychology	2*4	2*3	2*30	2*70	2*100	2*4		
	402 Social and community Psychology								
	<b>A: Clinical Psychology</b>								
	403 A Adult Psychopathology	2*4	2*3	2*30	2*70	2*100	2*4		
	404 A Psychological Therapies and interventions								
	<b>B: Child Guidance</b>								
	403 B: Child Psychopathology	2*4	2*3	2*30	2*70	2*100			
	404 B Child intervention procedures								
	<b>C: Industrial and organizational Psychology</b>								
	403 C Training and consumer behaviour	2*4	2*3	2*30	2*70	2*100			
	404 C Human Resource Management								
	405 Internship	2*8	2*6	2*30	2*70	2*100		2*4	
	406 Dissertation								
<b>Semester Total of Credits</b>							<b>24</b>		



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Program Grand total of credits	100
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## Department Vision, Mission and PO, PSO and COs of all Departments

### Department Vision

” To become an educational institution of preferred choice by ushering the convergence of knowledge, skills and values and to gift the Nation with highly disciplined, responsible and skilled Psychology Professionals by providing quality education and value based training”.

### Department Mission

“Moulding character and careers of students; Empowering students to become productive professionals to continuously contribute to the nation and meet global challenges; promotion of holistic personality development and scientific temperament among budding Psychologists and providing need based mental health services to the community”.



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## PO

By the end of the two year master's Programme in Psychology, the graduates of M.Sc Psychology will be able to:

PO 1: Demonstrate competence in psychology research, assessment, evaluation, counselling and teaching.

PO 2: Conduct investigations of complex psychological problems by methods that include appropriate experiments, analysis and interpretation of data and synthesis of information in order to reach valid conclusions.

PO 3: Use appropriate knowledge and skills to identify, formulate , analyze and solve complex psychological issues pertaining to individuals, institutions and society to in order to reach substantiated conclusions.

PO 4: Create, select, apply, adapt and extend appropriate psychological assessment techniques, theories, tools and tests to a range of societal problems.

PO 5: Able to work effectively as a member and leader in inter disciplinary and multidisciplinary teams.

PO 6: Communicate complex Psychological concepts in research, teaching and applied fields of Psychology.

PO 7: Analyze social aspects of psychological interventions and understand its cultural, economic, social, health, safety and legal implications.

PO 8: Able to apply professional ethics, confidentiality, accountability and equity.

PO 9: Identify and to address their own educational and skill needs in a changing world in ways sufficient to maintain their competence as psychologists and to allow them to contribute to the advancement of knowledge in the field of psychology.



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CO

## 101- Theoretical Perspectives of Psychology

CO1 To know the basic definitions of behaviour given by psycho-analytic, behavioural, humanistic, social and cognitive theorists.

CO2 To understand history behind the development of psychology as an independent field of study.

CO3 To be able to comprehend human behaviour along three lines of enquiry i.e. motivation, personality and learning.

CO4 To examine the issues involved in integrating different viewpoints of prominent schools of psychology with the cultural perspective.

CO5 To contrast Different schools and its perspectives in psychology.

CO6 To combine important findings from different theoretical perspectives and use them eclectically in practice.

## 102- Indigenous Psychology

At the end of completing this course, the students should be able to:

CO 1- To be able to define the basic concepts in Indigenous Psychology

CO 2-To understand Indigenous, Indian and Buddhist Psychological Perspectives

CO 3-To demonstrate the contemporary relevance of Indigenous Perspective in modern times.

CO 4-To Examine the effects of alternative healing techniques on psychological problems.



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CO 5-To analyze components of personality and motivation in Indian and Buddhist Psychological Perspectives

CO 6-To apply the concepts learned during the course to aid psychological wellbeing.

## **103 – Biopsychology**

At the end of completing this course, the students should be able to:

CO1 – Remember the role of biological factors that influence human behaviour.

CO2 – Understand the nuances of biopsychology.

CO3 – Apply the biological factors in describing human behaviour.

CO4 – Evaluate the biological aspects of human behaviour.

CO 5 - Develop a deeper insight on the biological contribution to human behaviour.

## **104 – Quantitative Research Methods and Psychometry**

At the end of completing this course, the students should be able to:

CO1 – Remember the steps and procedure in research and tool development.

CO2 – Understand the utility of various research designs.

CO3 – Analyse various research methods in social sciences

CO4 - Apply the steps in developing tools.





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CO5 – Create a research proposal with all the necessary aspects.

## **201- Personality Psychology**

CO1 -To be able to define the basic concepts in personality psychology.

CO2 -To understand personality and its implications towards ideal functioning.

CO3 -To apply the knowledge of personality psychology in social, cultural, educational and work contexts.

CO4 -To assess personality using appropriate method of assessment.

CO5 -To weigh the pros and cons of trait approach to personality.

CO6 -To investigate the role of personality criminal justice system.

## **202 – Counselling and Guidance**

At the end of completing this course, the students should be able to:

CO1 - Remember the steps in psychological counselling.

CO2 – Understand the ethical and professional responsibilities of a counsellor.

CO3 – Evaluate the skills in conceptualizing a case.

CO4 – Apply various techniques in conducting counselling sessions.

CO5 – Develop a counselling module for a special group.



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## 203- Cognitive Psychology

- Describe cognitive psychology as a part of cognitive science.
- Understand the assumptions of the information processing approach to cognition.
- Articulate the concepts related to Higher Cognitive Processes
- Analyze the various methods of Problem Solving
- Critically evaluate theories of Human Decision Making
- Compare the various models of Memory.

## 204 Qualitative Research Methods

At the end of completing this course, the students should be able to:

CO 1 : to understand the nature of qualitative research.

CO 2: to demonstrate the knowledge of qualitative research paradigms and theoretical positions.

CO 3: to apply various qualitative strategies of enquiries.

CO 4: to analyze various methods of qualitative research.

CO 5: to support and value the ethical guidelines and reporting the research.

CO 6: to apply and create suitable qualitative research design to solve the identified problem.



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## 207- Theories of Learning

CO1 To be able to define the basic concepts of learning.

CO2 To understand different theoretical approaches to learning.

CO3 To be updated with current status of research in different schools of psychology and their respective learning theory.

CO4 To gain knowledge of learning principles with a special reference to educational context.

CO5 To apply the findings about the phenomenon of learning in real life situations.

- Describe the experiments that led to the formulation of the major theories of Learning
- Understand the assumptions of the learning theories
- Articulate the concepts related to Learning
- Analyze the role of various schools of thought in development of Learning Theories
- Critically evaluate theories of Learning
- Compare the major Schools of thought which gave the most prominent Learning theories



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## **301 Positive Psychology**

At the end of completing this course, the students should be able to:

CO1 – Understand the life perspectives from the standpoint of positive psychology.

CO2 – Deliberate upon the relevance of positive constructs.

CO3 – Apply the positive constructs in daily practice.

CO4 – Evaluate the practical applications of the positive constructs.

CO5 – Create workshop modules on the positive constructs.

## **302 A Clinical Psychology and Assessments**

At the end of completing this course, the students should be able to:

CO 1 Describe the basic concepts of clinical psychology.

CO 2 Review the nature and purpose of clinical assessments

CO 3 Enumerate techniques of assessment.

CO 4 Categorize intelligence and personality tests for adults and children.

CO 5 Critically examine the professional and ethical issues in assessments.

CO 6 Interpret the results of various assessments.



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## **303 A Developmental Psychopathology**

At the end of completing this course, the students should be able to:

CO 1: Describe the basic concepts of psychopathology.

CO 2: Review the various models for understanding psychopathology.

CO 3: Enumerate the clinical features of the disorders.

CO 4: Categorize the types of the disorders.

CO 5: Interpret the various psychopathological aspects of childhood highlighting the clinical features, types and causes.

## **302C: Organizational Behaviour I – A micro perspective**

CO1 Outline the fundamental assumptions in organizational behaviour.

CO2 Understand the development in the field of industrial psychology.

CO3 Use the necessary skills in the field of work life behaviour.

CO4 Identify the Quality of work life with personality, motivation, learning and perception.

CO5 Interpret the human behaviour and its current research in Industrial set up with basic ethics in work place.

CO6 Compare the work life environment with stress factors and coping mechanisms.



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## 303 C Organizational Behaviour – II Macro perspective

CO 1 : Upon successful completion of this course, the student shall be able to understand the nature of communication, leadership, decision making, and organizational culture and structure.

CO 2: Upon successful completion of this course, the student shall be able to relate the individual differences and factors contributing to communication, leadership etc in organization.

CO 3 : Upon successful completion of this course, the student shall be able to apply the theoretical understanding in enhancing organizational communication, leadership, decision making, etc.

CO 4: Upon successful completion of this course, the student shall be able to appraise the effectiveness of various techniques used in organization.

CO 5: Upon successful completion of this course, the student shall be able to estimate the risk factors affecting the organizational culture and development.

CO 6 : Upon successful completion of this course, the student shall be able to design modules and techniques contributing to organizational performance and effectiveness.



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## **401 Rehabilitation Psychology**

At the end of completing this course, the students should be able to:

- CO1 – Understand the need and functions of rehabilitation psychology.
- CO2 – Apply the rehabilitation principles in psychologically helping the clients.
- CO3 – Analyse the role of a psychologist in a rehabilitation setup
- CO4 – Evaluate the psychological impact of disabilities.
- CO5 – Create a detailed rehabilitation plan for any one disability.

## **402 – Social and Community Psychology**

At the end of completing this course, the students should be able to:

- CO 1 Define the basic concepts of social and community psychology.
- CO 2 Understand social behaviour and its implications towards larger society.
- CO 3 Apply the concepts learned during the course to tackle community issues.
- CO 4 Point out the differences between the western and Indian society relating to institutions.
- CO 5 Review the status of alcohol addiction and unemployment.
- CO 6 Investigate the role of social movements in bringing change.



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## **403 A Adult Psychopathology**

At the end of completing this course, the students should be able to:

CO1 - Remember the diagnostic criteria for adult psychiatric disorders.

CO2 – Understand the clinical manifestations of the psychological disorders.

CO3 – Apply the clinical judgment skills in determining the diagnosis.

CO4 – Evaluate the socio-cultural factors that can impact the diagnosis.

## **404 A Psychological Therapies and interventions**

CO1 - To know the basic definitions of therapies given by psycho-analytic, behavioural, humanistic, social and cognitive theorists.

CO2 -To explain the basic assumptions in therapy by different schools.

CO3 -To apply therapeutic knowledge in community based intervention.

CO4 -To analyze social aspects of psychological intervention and understand its cultural, economic, safety and legal implications.





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CO5 -To be able to apply professional ethics and confidentiality

CO6 - To combine important findings from different therapeutic techniques and use them eclectically in practice.

## **403 C Training and consumer behaviour**

CO1 Outline the aspects of marketing in training contributing to the work environment.

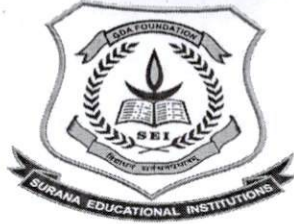
CO2 Understand the consumer behaviour in the field of industrial psychology.

CO3 Use the necessary training in the field of organizational behaviour.

CO4 Identify the Performance of employee and appraising it.

CO5 Applying the Psychological principles in work (B to C).

CO6 Evaluation of behaviour issues in the work place.



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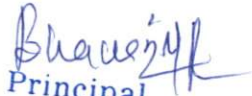
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## 404 C Human Resource Management

- Describe Human Resource Management
- Understand the assumptions of Human Resource Management
- Articulate the concepts related to Human Resource Management
- Analyze the Role of Human Resource Managers in Organizations
- Critically evaluate the various Approaches to Human Resource Management
- Devise Human Resource Policies to meet the requirements of an Organization.

## PSO

- Graduates will be successful professionals in Psychology and allied fields with proficiency of working in multi-disciplinary fields.
- Graduates will pursue higher education with synergistic combination of basic and applied fields of Psychology.
- Graduates will inculcate ethical and social values for the well- being of the society.

  
Principal  
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