



SURANA COLLEGE AUTONOMOUS

Affiliated to Bangalore University | Re-accredited by NAAC with A+
Recognised under section 2(f) & 12(B) of UGC

IQAC AND RESEARCH & DEVELOPMENT CELL

5 DAYS FACULTY DEVELOPMENT PROGRAM



on

DATA-DRIVEN RESEARCH: ADVANCED STATISTICAL AND ANALYTICAL FRAMEWORKS



29th December 2025 – 2nd January 2026 (Offline)



10:00 AM – 5:00PM



Computer Lab, Surana College (Autonomous), South End



www.suranacollege.edu.in

In today's academic and research landscape, data plays a pivotal role in enabling evidence-based decisions and producing high-quality scholarly output. Faculty members & scholars across diverse disciplines require an in-depth understanding of data-driven methodologies, advanced statistical tools, and analytical frameworks. This FDP aims to enhance research competence by equipping participants with the knowledge and skills needed to design, analyse, and interpret data using contemporary techniques and software tools.

OBJECTIVES OF THE PROGRAM:

1. To strengthen participants mastery of quantitative and qualitative research capabilities in developing appropriate design, execution, and evaluation of academic studies.
2. To develop proficiency in statistical analysis through hands-on engagement with contemporary analytical tools such as Python and SPSS.
3. To equip participants with comprehensive data skills, including data preparation, modeling, visualization, interpretation, and validation to support high-research outcomes.
4. To introduce modern analytical and machine learning- based research frameworks, fostering the ability to integrate emerging data-driven techniques into scholarly inquiry.
5. To enable participants to produce and publish high-impact research in reputed journals by applying robust, evidence-based methodologies that bridge theoretical paradigms with real-world data applications.

TARGET PARTICIPANTS

- Faculty members from universities, colleges, and research institutions.
- Research scholars, early-career academics, and professional involved in research.
- Individuals seeking to upskill in data analytics and statistical research.

EXPECTED OUTCOMES:

After the completion, participants will be able to:

- Design robust, data-driven research models.
- Apply advanced statistical tests and analytical techniques appropriately.
- Use data analysis tools (Python & SPSS) for empirical research.
- Interpret statistical outputs effectively and present results in scientific formats.
- Improve the quality and publication potential of research work.

PROGRAM DURATION:

Five Days (Full Time/30 contact hours)

This program will be conduct in offline mode only.

PROGRAM SCHEDULE

Date	Theme	Key Topics Covered
29-12-2025 10:00 AM – 5:00 PM	Foundations of Data-Driven Research	<ul style="list-style-type: none">• Fundamentals of research methodology & design.• Types of data, scales, sampling strategies• Reliability & validity measures• Overview of statistical software• Introduction to descriptive analytics
30-12-2025 10:00 AM – 5:00 PM	Advanced Statistical Techniques	<ul style="list-style-type: none">• Hypothesis formulation and testing• t-test, chi-square, ANOVA, MANOVA• Correlation & Regression (Linear & Multiple)• Factor Analysis
31-12-2025 10:00 AM – 5:00 PM	Data Handling & Visualization	<ul style="list-style-type: none">• Data cleaning, transformation & preprocessing• Outlier detection, missing values, coding• Exploratory Data Analysis (EDA)• Data visualization using Python
01-01-2026 10:00 AM – 5:00 PM	Machine Learning for Research Applications	<ul style="list-style-type: none">• Supervised & unsupervised learning• Classification algorithms (logistic regression, SVM, Decision Trees)• Clustering (K-means, Hierarchical)• Model validation & performance metrics
02-01-2026 10:00 AM – 5:00 PM	Academic writing for high-impact journals	<ul style="list-style-type: none">• Interpreting statistical outputs• Creating tables, charts & results sections• Demo of Scientific Research Paper Writing• Ethics in data-driven research

TRAINING PEDAGOGY:

The FDP is designed on blended mode, with interactive approach including – expert lectures, hands-on sessions using real datasets, group research tasks, assessments and feedback sessions, consultation hours.

Resource Persons



Dr. Veena K N

Dr. Veena K N holds a Ph.D. in Business Administration from the University of Mysore (2012) for her research on quality service delivery in BMTC. She has a distinguished academic background with an M.Sc. in Statistics (4th Rank, 1996) from the University of Mysore, an M.Sc. in Total Quality Management from Sikkim Manipal University, and certification as an Entrepreneurship Educator from NEN in collaboration with Stanford University and IIM-B. With 27 years of academic experience, she currently serves as the Principal of Surana College (Autonomous), Bangalore. Her core contributions include strengthening academic compliance, enhancing teaching–learning outcomes, fostering internationalisation, and building cohesive faculty teams. Dr. Veena has held significant leadership roles such as HOD, Program Manager, Dean, IQAC Coordinator, and Chairperson of international conferences. A sought-after resource person, she has delivered over 50 FDPs/MDPs, conducted OBE and accreditation workshops, mentored entrepreneurs, and coordinated the Goldman Sachs 10,000 Women program.



Dr. S Gokula Krishnan

Dr. S. Gokula Krishnan is an IIM-certified Business Analyst and distinguished academician with over 17 years of teaching experience and four years in academic administration. He currently serves as Professor and Domain Head – Analytics at Surana College (Autonomous), Bengaluru. His expertise spans Business and Data Analytics, Human Resource Management, Supply Chain Management, and Entrepreneurship, supported by extensive contributions to research supervision, curriculum design, and institutional development. He is the founder of Dr GK Analytics. A recognized Ph.D. guide and examiner, he has supervised more than 300 MBA projects and evaluated numerous doctoral theses. With over 40 publications in Scopus-indexed and peer-reviewed outlets, his work focuses on analytics adoption, AI in management, employee engagement, and sustainability. Dr. Krishnan is a sought-after resource person, delivering 75+ invited lectures and FDPs, and is proficient in advanced analytical and AI/ML tools.

REGISTRATION DETAILS:

REGISTRATION FEE

- Faculty Members - **Rs. 3,000/-** (per person) ;
Research Scholars & PG Students **Rs. 2000/-** (per person)

Account Details

Beneficiary: SURANA COLLEGE

C.A A/C No. 1173201001056

IFSC Code: CNRB0001173

Bank: Canara Bank

Branch: South End Road

Scan & Pay



Last date of registration: 25th December 2025.

- Registration Link: <https://forms.gle/whDn1Ska9KyGJ9An8>

IMPORTANT INFORMATION TO THE PARTICIPANTS:

To ensure a seamless and productive learning experience, participants are advised to note the following key points:

1. Participants will receive a Certificate of Completion only upon fulfilling the minimum requirement of 80% attendance and successful completion of all the assessment criteria.
2. Participants are expected to maintain professional decorum, adhere to the program schedule, and respect institutional guidelines throughout the duration of the FDP.
3. The institution has a clean and hygiene canteen on campus. Participants may conveniently purchase food, beverages, and snacks as required during breaks.
4. For any further information, please contact **Mr. Vijay Naryana**,
Contact No. **+91 9845632128**

Event Chair

Dr. Veena K N

Principal
Surana College (Autonomous)

Co-Convenor

Ms. Geetha A M

IQAC (In-Charge),
Surana College (Autonomous)

Chief Parton

Dr. Archana Surana

Managing Trustee
Surana Educational Institution

Convenor

Dr. Vanishree M.R.

Dean, Research & Development Cell,
Surana Educational Institution

ORGANIZING COMMITTEE MEMBERS

Mr. Vijay S Naryana, Assistant Professor, Department of Commerce.

Dr. Jagadish M H, Associate Professor, Department of Commerce & Management.

Dr. Sruthi, Assistant Professor, Department of English.