

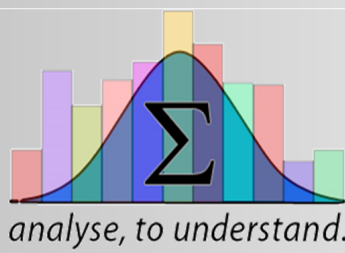
St. Ann's College for Women
Mehdipatnam, Hyderabad



Department of Statistics

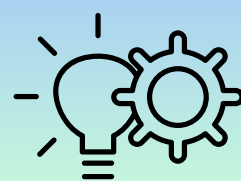
B.Sc. (MSCS & MSDS)

Course Structure
R24 Batch (2024-25)



Semester I & II (Theory & Practical)

- Descriptive Statistics and Probability
- Probability Distributions



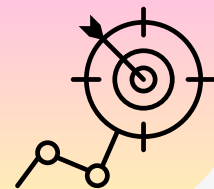
Semester III & IV (Theory & Practical)

- Linear Regression Analysis & Statistical Inference I
- Statistical Inference II



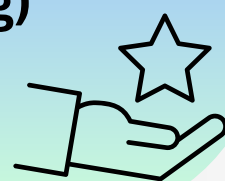
Semester V & VI (Theory & Practical)

- Sampling Techniques, Time Series and SQC
- ANOVA, DoE, Vital Statistics and Index Numbers



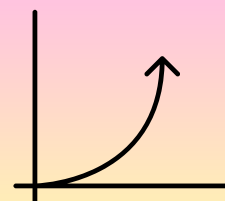
Skill Enhancement Courses (SEC) -
Sem III & IV (project based learning)

- Data Scaling Techniques & Report Writing
- R Programming



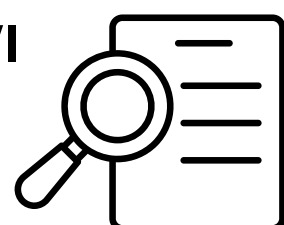
Generic Elective (GE) - Semester V
(For non-statistics students)

Essential Statistics



Core Elective (CE) - Semester VI

Operations Research



Dept. of Statistics



DEPARTMENT OF STATISTICS



HIGHLIGHTS

Robust Curriculum

- Descriptive Analytics, Inferential analytics, Predictive analytics, Data visualization & Applied statistics
- **Experiential learning** through practicals, surveys, projects and case studies
- **Skill Training** – MS Excel & R Programming
- **Sigma Club** – Students' club
- **Statopedia** - Preparing the students for Statistics and related higher education or jobs through a formal coaching by the faculty of the department.



INDIAN STATISTICAL INSTITUTE



SCOPE

Higher Education

- PG in Statistics, Demography, Population Statistics, Bio-Statistics & Demography, Survey Research & Data Analytics, Public Health, Data Analytics, Business Analytics, Risk Management, Actuarial Statistics
- MCA, MBA

Institutes/Universities Offering

- Indian Statistical Institute (Kolkata, Delhi, Bengaluru, Hyderabad)
- IITs, IISC, Central universities, IIPS& IIPH
- State & National universities - Osmania University, Telangana University, Kakatiya University, Nagarjuna University, Madras University, etc.)

Job Prospects as Statisticians

- Indian Statistical Service (ISS), MOSPI, Govt. of India – B.Sc.
- RBI – Grade B Jobs in Statistics Dept. – B.Sc.
- Assistant Statistical Officer (ASO) – B.Sc.
- Statistical officer (UPSC Examination) – B.Sc.
- Insurance Regulatory & Development Authority of India (IRDAI) – M.Sc.
- Ministry of Textiles
- Big Data or Data Analyst/Data Scientist
- Bio-Statisticians
- Teachers/Lecturers
- Data Journalism

** Not limited to the above