

M.Sc. Statistics-Data Science
(Specialization in Artificial Intelligence & Machine Learning and Biostatistics)
In Association with TCS-ION Industry Honour program

Tentative Semester wise Course List

Year I : Semester I

- Mathematical Concept
- Distribution Theory
- Probability Theory
- Data Structure & Analytics
- R & Python for Data Science
- Data Storage Techniques
- Research Methodology

Year I : Semester II

- Statistical Inference
- Advanced Regression Analysis
- Sampling & Analysis of Experiment
- Artificial Intelligence for Real-World Application
- Data Modelling & Visualization
- Specialization-I
- Advanced Python for Data Science
- Data Ethics & Governance (VAC)

Year II : Semester III

- Advanced Multivariate Analysis
- Econometrics & Time Series Analysis
- Machine Learning for Real-World Application
- Fundamental of Networking
- Specialization-II
- Specialization-III
- Summer Internship
- Analyzing, Visualizing and Storytelling with Data
- Statistical Computation using software

Year II : Semester IV

- Cloud Computing
- Specialization-IV
- Project/Internship
- Winter Internship

Specialization (AI & ML Track)

- Generalized Linear Model for Machine Learning
- Data Mining & Analytics

- Software Engineering
- Deep Learning

Specialization (Biostatistics Track)

- Generalized Linear Model
- Epidemiology
- Clinical Trials & Drug Development
- Statistical Genetics & Survival Analysis