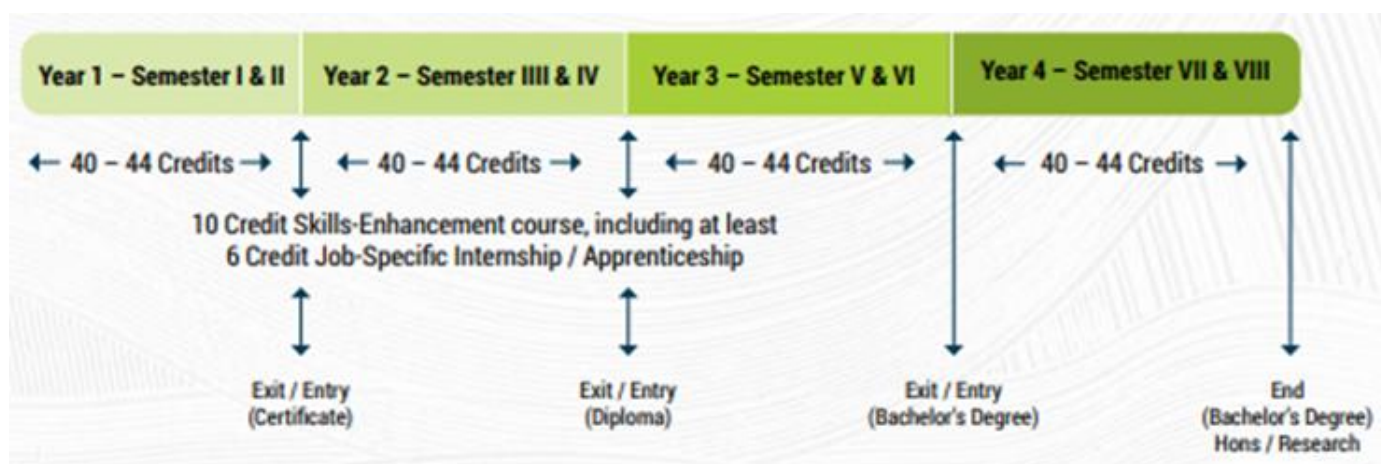


**B.Sc.(Hons') Statistics-Data Science
(Specialization in Data Analytics & Biostatistics)
In Association with TCS iON Industry Honour program
(4 Years Undergraduate Degree Programme as per NEP 2020)**

Tentative Semester wise Course List



Year I : Semester I

- Statistics for Data Science
- Mathematics for Data Science
- Statistical Programming Tool using R and Python
- Descriptive Statistics
- Financial Literacy
- German/ Japanese-I
- NSS
- Capstone Project-I

Year I : Semester II

- Probability Distributions
- Linear Algebra
- Data Structure & Analytics
- Probability Theory
- German/ Japanese-II
- Environmental Studies
- Capstone Project-II

Year II : Semester III

- Statistical Inference
- Survey Techniques
- Database Management System
- Statistical Programming Tools
- Data Modelling and Visualization (TCS)
- Doodle Art/Paper Mache
- Constitutional Values, Gender Diversity and Inclusion
- Community Service-I

Year II : Semester IV

- Statistical Quality Control & Reliability
- Linear Model & Regression Analysis
- Artificial Intelligence
- Hypothesis Testing using Different Tools
- Practical Approach to Data Mining & Analytics (TCS)
- Constitution of India
- Content Creation
- Community Service-II

Year III – Semester V

- Analysis of Experiment
- Specific Elective-I
- Research Methodology
- Big Data Analytics (TCS)
- Ethics and Values
- TCS Internship-I

Year III – Semester VI

- Econometrics and Time Series Analysis
- Specific Elective-II
- Minor Track Project
- Machine Learning using Real World Application (TCS)
- Soft Skills
- TCS Internship-II

Year IV – Semester VII

- Multivariate Analysis
- Specific Elective-III
- Generalized Linear Model in Machine Learning
- Major Project/ Internship

Year IV – Semester VIII

- Stochastic Process & Queuing Theory
- Specific Elective-IV
- Advanced Computational using Software
- Major Project/ Internship

Specialization (Data Analytics Track)

- Object Oriented Programming
- Cloud Computing
- Deep Learning
- Web & Social Analytics

Specialization (Biostatistics Track)

- Demography

- Epidemiology
- Clinical Trial Designs
- Public Health for Biostatistics

Note : Research components include Symposium, Research Project / Dissertation and Research Internship.