

B.SC. HONS. (STATISTICS – BIG DATA ANALYTICS)

Curriculum

Semester -I		
Course Code	Course name	Credits
BSCST19101	Descriptive Statistics	4
BSCST19102	Concept of Probability and Distribution Functions	4
BSCST19103	Mathematical Analysis	4
BSCST19104	Microeconomics	4
BSCST19105	R Programming	2
BSCST19106	Statistical Lab-I (based on R Programming)	2
BSCST19107	Soft Skill Development	2
	Total	22

Semester –II		
Course Code	Course name	Credits
BSCST19201	Discrete Distributions	4
BSCST19202	Continuous Distribution	4
BSCST19203	Sampling Distributions	2
BSCST19204	Algebra	4
BSCST19205	Macroeconomics	4
BSCST19206	Statistical Lab-II(using R Programming)	2
BSCST19207	Environmental Sciences	4
	Total	24

Semester –III		
Course Code	Course name	Credits
BSCST19301	Estimation Theory	4
BSCST19302	Calculus	4
BSCST19303	Testing of Hypothesis	4
BSCST19304	Survey Techniques	4
BSCST19305	Introduction to Python	2
BSCST19306	Analytics & Intelligence	4
BSCST19307	Statistical Lab-III (based on python)	2
	Total	24

Semester –IV		
Course Code	Course name	Credits
BSCST19401	Introduction to Stochastic Process & Queuing Theory	4
BSCST19402	Linear Model & Regression Analysis	4
BSCST19403	Numerical Analysis	3
BSCST19404	Econometrics	4
BSCST19405	Database Management System	4
BSCST19406	Statistical Data Mining	3
BSCST19407	Statistical Lab-IV	2
	Total	24

Semester –V		
Course Code	Course name	Credits
BSCST19501	Design of Experiment	4
BSCST19502	Operation Research	4
BSCST19503	Multivariate Analysis and Non Parametric Methods	4
BSCST19504	Artificial Intelligence	4
BSCST19505	Specialization-I	4
BSCST19506	Specialization-II	4
	Total	24

Semester –VI		
Course Code	Course name	Credits
BSCST19601	Survival Analysis & SQC	4
BSCST19602	Time Series Analysis & Vital Statistics	4
BSCST19603	Machine Learning	4
BSCST19604	Specialization-III	4
BSCST19605	Specialization-IV	4
BSCST19606	Project	4
	Total	24

Track Name	Semester V	Semester V	Semester VI	Semester VI
Data Analytics Track	Deep Learning	Cloud Computing	Big Data Analytics	Web & Social Intelligence
Quality Control Track	Statistical Quality Control	Business Process Management	Total Quality Management	Six Sigma Methodology
Finance Track	Actuarial Statistics	Financial Economics	Stochastic Models in Finance	International Economics
Biostatistics Track	Bioinformatics	Applied Reliability & Clinical trials	Microarray Data Analysis	Epidemiology