

Programme Structure

M.Sc. Data Science – I Semester								
Course Code	Course Name	No of Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		In-semester Assessment	End-semester Assessment	Total
501	Linear Algebra and Matrix Analysis	4	-	-	4	50	50	100
503	Probability and Probability Distributions	4	-	-	4	50	50	100
505	Statistical Inference	3	-	2	4	50	50	100
507	Non Parametric and Categorical Data Analysis	3	-	2	4	50	50	100
509	Data Management and Data Warehousing	2	-	2	3	50	50	100
511	Programming with R and Python	2	-	4	4	50	50	100
Total		18	-	10	23	-	-	600

M.Sc. Data Science – II Semester								
Course Code	Course Name	No of Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		In-semester Assessment	End-semester Assessment	Total
502	Distributed Algorithms and Optimization	2	-	2	3	50	50	100
504	Linear Regression Models	3	-	2	4	50	50	100
506	Stochastic Processes & Bayesian Methods	4	-	-	4	50	50	100
508	Design and Analysis of Experiments	2	-	2	3	50	50	100
510	Simulation and Monte Carlo Techniques	2	-	2	3	50	50	100
512	Programming with Hadoop and Spark	2	-	4	4	50	50	100
514	Focus Seminars – I	-	-	-	2	50	-	50
Total		15	-	12	23	-	-	650

M.Sc. Data Science – III Semester								
Course Code	Course Name	No of Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		In-semester Assessment	End-semester Assessment	Total
601	Multivariate Methods for Machine Learning	3	-	2	4	50	50	100
603	Deep Learning and Text Mining	2	-	2	3	50	50	100
605	Longitudinal Data Modelling	3	-	2	4	50	50	100
607	Time Series and Forecasting	2	-	2	3	50	50	100
609	Applied Data Analytics	2	-	4	4	50	50	100
611	Programming for Analytics	2	-	4	4	50	50	100
613	Focus Seminars – II	-	-	-	2	50	-	50
Total		14	-	16	24	-	-	650

M.Sc. Data Science – IV Semester						
Course Code	Course Name	Credits	Maximum Marks			Assessment
			In-semester Assessment	End-semester Assessment	Total	
699	Project	10	50	150	200	Presentation, Viva voce and Evaluation of reports
602	Internship	Nil	100*	-	100	
Total		10	-	-	300	

* Any candidate who secures a minimum of 60 marks will be awarded satisfactory (S) grade.

Total Credits in the programme: 80