

M. Sc. Data Science
Proposed Course Pattern – 2021 -22 onwards

Sem.	Course	Hr.
I	Statistical Computing	5
	Data Science and Big Data Analytics	4
	Advanced Database Management Systems	4
	Software Lab-I (R Programming)	4
	Software Lab-II (Databases)	4
	AEC: Artificial Intelligence	4
	DSE-I: Design and Analysis of Algorithms (OR)	5
	DSE-I: Object Oriented System Development	
	Extra Credit Course-I: MOOC	-
II	Multivariate Techniques for Data Analytics	5
	Advanced Web Technology	4
	SEC-1 : Soft Skills	4
	Software Lab-III (Advanced Web Technology)	4
	Software Lab-IV (Machine Learning)	4
	Self- paced Learning: Python for Data Science	-
	DSE-II: Machine Learning (OR)	5
	DSE-II: WAP and XML	
	GE I(W.S): Internet of Things	4
	Extra Credit Course-II: MOOC	-
III	Time Series and Sampling Theory	5
	Software Project Management	4
	Cloud Computing	4
	Digital Image Processing	4
	Software Lab-V (Image Processing)	4
	Internship	-
	DSE III: Cryptography and Network Security (OR)	5
	DSE III: Natural Language Processing	
	GE II(B.S): Deep Learning	4
	Extra Credit Course-III: MOOC	-
IV	Project Work	21
	Comprehensive Examination	-
	Business Intelligence	4
	DSE IV: Sentiment Analysis (OR)	5
	DSE IV: Soft Computing	
I-IV	Outreach Programme (SHEPHERD)	-