

DEPARTMENT OF COMPUTER SCIENCE (PG)**PROGRAMME MATRIX****Programme Title: M.Sc., Data Science****2025-2026 BATCH****Semester: I**

Sem.	Course Type	Course Title	Credits
I	DSC	Statistical Data Analysis using R	4
I	DSC	Mathematics for Data Science I	4
I	DSC	Advanced Database Management System	4
I	DSC	Data Structures and Algorithms using Python	4
I	DSC	Web Technologies Practical	2
I	DSC	Advanced Database Management System Practical	2
I	DSC	Data Structures and Algorithms using Python Practical	2
I	SEC	Python for Data Science	4

Semester: II

Sem.	Course Type	Course Title	Credits
II	DSC	NoSQL Databases	4
II	DSC	Mathematics for Data Science II	4
II	DSC	Statistical Inference	4
II	DSC	NoSQL Databases Practical	2
II	DSC	Data Manipulation and Statistical Analysis Practical	2
II	DSE	Cloud Computing	4
II	DSE	Soft Computing	4
II	DSE	Natural Language Processing	4
II	DSE	Information Security	4
II	DSP	Capstone Project	2
II	SEC	Soft Skills	4

Semester: III

Sem.	Course Type	Course Title	Credits
III	DSC	Big Data Analytics	4
III	DSC	Machine Learning	4
III	DSC	Data Visualization	4
III	DSC	Machine Learning Practical	2
III	DSC	Data Visualization Practical	2
III	DSP	Big Data Analytics Project	2
III	DSE	AI driven Cloud and Edge Computing	4
III	DSE	Deep Learning Techniques	4
III	DSE	Generative AI and LLM	4
III	DSE	Cyber Security	4
III	MDC	Generic Elective	3
III	SEC	Research Methodology	2

Semester: IV

Sem.	Course Type	Course Title	Credits
IV	DSC	Computer Vision and NLP	4
IV	DSP	Major Project	8
IV	DSE	Quantum Computing	4
IV	DSE	Blockchain Technologies	4
IV	DSE	Drone Programming	4
IV	DSE	Internet of Things	4
IV	SEC	Research Proposal Writing and Literature Review	2