CURRICULUM FLOW CHART – DATA SCIENCE 2025 -2029

SEMESTER	THEORY							PRACTICAL		
8								CapStone Project Phase-I I	Internship	
7	Innovation and Entrepreneurship	OE II	PE IV / MOOC	PE V / MOOC					CapStone Project Phase-I	
6	DEVOPS	MLOPS	Data Cloud	OE 1	PE II	PE III	Cognitive & Technical Skills-VI	DEVOPS	Data Cloud	Data Science Projects 2
5	Data-Driven Intelligence	Software Engineering	Big Data Engineering	Deep learning essentials	Operating System	PE 1	Cognitive & Technical Skills-V	Big Data Engineering	Operating System	Deep learning essentials
4	Transforms and Numerical Techniques	Design and Analysis of Algorithms	Statistical Foundations of Data Science	Data Warehousing	Machine Learning for Data Science	Cognitive & Technical Skills-IV		Design and Analysis of Algorithms	Machine Learning for Data Science	1.SFODS 2.DW	1.SEC II 2.Data Science Projects-1
3	Probability and Statistics	Data Structures	Computer Organization and Architecture	Discrete Mathematics and Graph Theory	Web Technologies	Database Management System(no SQL)	Cognitive & Technical Skills-III	Data Structures	Database Management System(no		SEC I
2	Single and Multivariate Calculus	Engineering Chemistry	Introduction to Mechanical Engineering	Introduction to Electrical Engineering	Object Oriented Programming	Engineering Mechanics	Technical English	Engineering Chemistry	Introduction to Mechanical Engineering	Object Oriented Programming	OCC
1	Linear Algebra and Differential	Engineering Physics	Introduction to Electronics Engineering	C Programming	Engineering Graphics and Design	Biology for Engineers	CP Ethics	Engineering Physics	C Programming		

Legend:

Course	→	Course
Course	←	Lab