

SCHOOL OF DATA SCIENCE AND FORECASTING

M.Tech.(BIG DATA ANALYTICS)

Programme Structure (2022-24)

First Semester:

Code	Title	Credits (L-T-P)
CORE COURSES		
DS7B-701	Operations Research	4 (3-1-0)
DS7B-703	RDBMS and NOSQL	3 (2-0-2)
DS7B-705	Data Mining and Data Warehousing	3 (2-0-2)
DS7B-707	Python for Analytics	3 (2-0-2)
DS7B-709	Advanced Excel	2 (0-0-4)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7B-721	Cloud Computing	3 (2-1-0)
DS7B-723	Statistical Research Methods	3 (3-0-0)
DS7B-725	Multivariate Analysis	3 (2-0-2)
ELECTIVE GENERIC: The students can choose following course or any generic course being offered in other M.Tech. programmes being run in this campus.		
DS7B-741	Fundamentals of Algorithms	3 (2-1-0)

Second Semester:

Code	Title	Credits (L T P)
CORE COURSES		
DS7B-702	Statistical Programming in R	3 (2-0-2)
DS7B-704	Big Data Technologies	3 (2-0-2)
DS7B-706	Java programming	3 (2-0-2)
DS7B-708	Machine Learning	3 (2-0-2)
DS7B-710	Data Visualization	3 (2-0-2)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7B-722	Natural Language Processing	3 (2-0-2)
DS7B-724	Social Network Analysis	3 (2-0-2)
DS5B-726	Text and Image Analytics	3 (2-0-2)
ELECTIVE GENERIC: The students can choose following course or any generic course being offered in other M.Tech. programmes being run in this campus.		
DS7B-742	Technical Communication	3 (2-1-0)

Third Semester:

Code	Title	Credits (L T P)
CORE COURSES		
DS7B-801	Forecasting Methods	3 (2-1-0)
DS5B-803	Linear Algebra and Advanced Calculus	3 (2-1-0)
DS7B-805	Deep Learning	3 (2-1-0)
DS7B-807	Scala Programming	3 (2-0-2)
DS7B-809	Decision Analysis	3 (2-1-0)

ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7B-821	Blockchain Technology	3 (2-1-0)
DS7B-823	Pattern Recognition	3 (2-0-2)
DS5B-825	Computer Vision	3 (2-1-0)
DS7B-827	Data Security	3 (2-0-2)
ELECTIVE GENERIC: The students can choose following course or any generic course being offered in other M.Tech. Programmes being run in this campus.		
DS7B-841	Minor Project	3 (0-0-6)

Fourth Semester:

Code	Title	Credits
DS7B-802	M.Tech. Dissertation	12

Note: The above course contents can be modified as per requirement from time to time in accordance with University Ordinance No. 14.