

SCHOOL OF DATA SCIENCE AND FORECASTING

PROGRAM CODE: DS7B

PROGRAM TITLE: Master of Technology (M.Tech.)

- Big Data Analytics

- BATCH: 2021-23

PROGRAMME STRUCTURE

First Semester:

Code	Title	Credits (L-T-P)
CORE COURSES		
DS7B-701	Statistical Research Methods	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	Machine Learning	3 (2-0-2)
DS7B-711	Advanced Excel	3 (1-0-4)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7B-721	Cloud Computing	3 (2-1-0)
DS7B-723	Statistical Programming in R	3 (2-0-2)
DS7B-725	Multivariate Analysis	3 (2-0-2)
DS7B-727	Data Structure & Algorithms	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	Operations Research	4 (3-1-0)
DS7B-704	Forecasting Methods	3 (2-1-2)
DS7B-706	Big Data Technologies	3 (2-0-2)
DS7B-708	JAVA Programming	3 (2-0-2)
DS7B-710	Data Visualization	3 (2-0-2)
DS7B-712	Scala Programming	3 (2-0-2)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7B-722	Social Network Analysis	3 (2-1-0)
DS7B-724	Natural Language Processing	3 (2-0-2)
DS7B-726	Deep Learning	3 (2-0-2)
DS7B-728	Massive Graph 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-742	Technical Communication	3 (2-1-0)

Third & Fourth Semesters:

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Code	Title	Credits
DS7B-802	M.Tech. Dissertation	24

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