SCHOOL OF DATA SCIENCE AND FORECASTING

PROGRAM CODE: DS7A

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

BRANCH: Data Science

- **BATCH: 2022-24**

PROGRAMME STRUCTURE

First Semester:

Code	Title	Credits (L-T-P)
CORE COURSES		
DS7A-701	Statistical Research Methods	4 (3-1-0)
DS7A-703	RDBMS and NOSQL	3 (2-0-2)
DS7A-705	Data Mining and Data Warehousing	3 (2-0-2)
DS7A-707	Python for Analytics	3 (2-0-2)
DS7A-709	Machine Learning	3 (2-0-2)
DS7A-711	Advanced Excel	3 (1-0-4)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7A-721	Cloud Computing	3 (2-1-0)
DS7A-723	Statistical Programming in R	3 (2-0-2)
DS7A-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.		
DS7A-741	Fundamentals of Algorithms	3 (2-1-0)

Second Semester:

Code	Title	Credits (L T P)
CORE COURSES		
DS7A-702	Operations Research	4 (3-1-0)
DS7A-704	Forecasting Methods	3 (2-0-2)
DS7A-706	Big Data Technologies	3 (2-0-2)
DS7A-708	Linear Algebra and Advanced Calculus	3 (2-1-0)
DS7A-710	Data Visualization	3 (2-0-2)
DS7A-712	Deep Learning	3 (2-0-2)
ELECTIVE COURSES-DISCIPLINE CENTRIC (Any Two)		
DS7A-722	Computer Vision	3 (2-0-2)
DS7A-724	Natural Language Processing	3 (2-0-2)
DS7A-726	Soft Computing	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.		
DS7A-742	Technical Communication	3 (2-1-0)

Third &Fourth Semesters:

Code	Title	Credits

DS7A-802	M.Tech. Dissertation/ Internship	24

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