

SCHOOL OF DATA SCIENCE AND FORECASTING

PROGRAM CODE: DS7E

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

- Data Science

- BATCH: 2021-23

PROGRAMME STRUCTURE

First Semester:

| Code | Title | Credits (L-T-P) |
|--|----------------------------------|------------------------|
| CORE COURSES | | |
| DS7E-701 | Statistical Research Methods | 3 (3-0-0) |
| DS7E-703 | RDBMS and NOSQL | 3 (2-0-2) |
| DS7E-705 | Python for Analytics | 3 (2-0-2) |
| DS7E-707 | Advanced Excel | 2 (0-0-4) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) | | |
| DS7E-721 | Data Mining and Data Warehousing | 3 (2-0-2) |
| DS7E-723 | Multivariate Analysis | 3 (2-0-2) |
| PROJECT | | |
| DS7E-741 | Minor Project-I | 6 (0-0-12) |

Second Semester:

| Code | Title | Credits (L-T-P) |
|---|------------------------------|------------------------|
| CORE COURSES | | |
| DS7E-702 | Forecasting Methods | 4 (3-1-0) |
| DS7E-704 | Statistical Programming in R | 3 (2-0-2) |
| DS7E-706 | Machine Learning | 3 (2-0-2) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online or Self Study | | |
| DS7E-722 | Cloud Computing | 4 (2-0-2) |
| DS7E-724 | Fundamentals of Algorithms | 4 (2-1-0) |
| PROJECT | | |
| DS7E-742 | Minor Project-II | 6 (0-0-12) |

Third Semester:

| Code | Title | Credits (L-T-P) |
|---|--------------------------------------|------------------------|
| CORE COURSES | | |
| DS7E-801 | Operations Research | 4 (3-1-0) |
| DS7E-803 | Data Visualization | 3 (2-0-2) |
| DS7E-805 | Natural Language Processing | 3 (2-1-0) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online or Self Study | | |
| DS7E-821 | Linear Algebra and Advanced Calculus | 4 (3-1-0) |
| DS7E-823 | Scientific Computing | 4 (3-1-0) |
| PROJECT | | |

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| DS7E-841 | Minor Project-III | 6 (0-0-12) |
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Fourth Semester:

| Code | Title | Credits (L-T-P) |
|---|--------------------------|-----------------|
| CORE COURSES | | |
| DS7E-802 | Big Data Technologies | 4 (3-0-2) |
| DS7E-804 | Deep Learning | 3 (2-1-0) |
| DS7E-806 | Decision Analysis | 3 (2-1-0) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online or Self Study | | |
| DS7E-822 | Modelling and Simulation | 4 (3-1-0) |
| DS7E-824 | Technical Communication | 4 (3-1-0) |
| PROJECT | | |
| DS7E-832 | Minor Project-IV | 6 (0-0-12) |

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