

### Revised Scheme of Study for MS Data Science

Course	Cr Hrs
<b>Semester – I</b>	
Applied Programming I	No Credit Hour (must pass)
Core Course – I	3
Core Course – II	3
Elective-I	3
Fahm-e-Quran I (Only for Muslims)	1
Ethics and Culture I (Only for non-Muslims)	1
Total	10
<b>Semester – II</b>	
Core Course – III	3
Specialization-Elective-I	3
Research Methodology	3
Fahm-e-Quran II (Only for Muslims)	1
Ethics and Culture II (Only for non-Muslims)	1
Total	10
<b>Semester – III</b>	
Specialization-Elective – II	3
MS Thesis-I / Elective II	3
Total	6
<b>Semester – IV</b>	
Elective-III	3
MS Thesis-II / Elective-IV	3
Total	6

#### **Core Courses for MS (Data Science)**

- Statistical and Mathematical Methods for Data Science
- Tools and Techniques in Data Science
- Machine Learning

#### **Proposed Specialization Courses (Choose any two)**

- Big Data Analytics
- Deep Learning
- Natural Language Processing
- Distributed Data Processing

#### **Registration in “MS Thesis - I” is allowed, provided the student has**

- Earned at least 18 credits
- Passed the “Research Methodology” course; AND
- CGPA is equal to or more than 2.5.