

Introduction to MSDS Program:

The Master of Science (MS) in Data Science is a graduate-level program that focuses on developing professionals with the skills and knowledge required to analyze and interpret complex data sets. The program combines elements of computer science, statistics, and domain-specific knowledge to equip students with the skills to derive insights from data.

The MS in Data Science program covers topics such as data management, data mining, machine learning, statistical modeling, and data visualization. Students will learn how to use programming languages such as Python and R, as well as tools such as Hadoop, Spark, and SQL to manipulate, analyze and visualize data. In addition, they will learn how to communicate insights and findings to stakeholders in a clear and concise manner.

The program is designed for individuals who have a background in computer science, statistics, mathematics, or a related field, and who are looking to expand their skill set in data science. Graduates of the program are well- equipped to pursue careers as data scientists, data analysts, business analysts, data engineers, and other related roles in industries such as healthcare, finance, technology, and government.

Overall, the MS in Data Science program provides students with a solid foundation in the tools and techniques used in the field of data science and prepares them for a successful career in this growing and exciting field.

Eligibility Criteria for MSDS:

Degree in a relevant subject, earned from a recognized university after 16 years of education with at least 60 % marks or a CGPA of at least 2.0 on a scale of 4.0.

Admission Test:

- a) Students must pass a rigorous admission test as an eligibility condition for admission to MS programs, with a passing score of 50 %.
- b) Accept the GRE/HAT General/Equivalent tests, with a passing score of 50 %.

Duration:

The minimum duration for completing MSCS is 1.5 years. However, the HEC allows a maximum of 4 years to complete the MSCS degree.

Credit Hours:

Minimum credit hours are 32.

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

- Earned at least 18 credits.
- CGPA is equal to or more than 2.5.

Award of Degree:

For the award of an MSDS degree, a student must have:

1. With Thesis:
 - Passed courses of 26 credit hours, including core courses, Fahm-e-Quran courses, and research methodology course + 6 credit hours of MS Thesis.
 - Obtained a CGPA of 2.5 or above.
2. Without Thesis:
 - Passed courses totaling at least 32 credit hours, including core courses and Fahm-e-Quran Courses
 - Obtained a CGPA of 2.5 or above.