MASTERS IN DATA SCIENCE

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ABOUT PROGRAM

DATA is the new definition of power for the upcoming generation; this holds everything to control the world and, the human race can benefit a lot from the same. A unique combination of Mathematics, Statistics and Computer Science can serve as a toolkit for the proper implementation of the techniques for solving real-life problems. The language of data can be learnt by employing analytical skills; this creates better opportunities for career advancements as well as for fresh employment.

M.Sc. Data Science Program at GSFC University is a Degree which is designed for Four Semesters (Two Years) in such a way that advanced concepts of Mathematics and Statistics will be applied through Computer Programing to analyze big data. Students will also get theoretical and practical knowledge by undergoing industrial internship after every semester.

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Opportunity for the placement may be provided by the Institute.

PROGRAM OBJECTIVES

To prepare the students to understand the data science with respect to mathematics, statistics and computer applications with respect to research and Industrial applications.

To make students expert in interpreting complex data and challenges related to it.

To provide knowledge needed to solve current and emerging technologies to students.

To make students expert in communicating issues related to chemistry to a wide audience.

To prepare students in solving complex social and ethical problems confronting the industry and the government.

To expose students to the different processes used in industries and their applications in chemistry.

PROGRAM OUTCOMES

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applications.

Expertise in interpreting complex data and challenges.

Expertise in knowledge needed to solve current and emerging technologies.

Understanding related to questions they need to ask and in – depth research they need to conduct.

Expertise in communicating issues related to industrial chemistry to a wide audience.

Expertise in solving complex social and ethical problems confronting the industry and the government.

PROGRAM STRUCTURE

The M.Sc. Data Science Program is of two-year duration. Each year is called an academic year and is divided into two semesters. Thus, there will be a total of four semesters. Each semester consists of fifteen weeks of teaching.The teaching learning process involves theory classes of an hour duration and practical classes of four hours duration. The curriculum will be delivered through various methods including chalk and talk, laboratories, power point presentations, audio, video tools, E-learning / E-content, virtual laboratories, simulations, field trips/ Industry visits, seminars, workshops, projects, models, class discussions and industrial internship.

EVALUATION

The assessment broadly comprises of Internal Assessment (Continuous Evaluation Component) and External Assessment i.e., End Semester Examination. Each course carries 100 marks for theory with 50 marks for Internal Assessment and 50 for End Semester Examination and practical course carries additional 50 marks. The internal assessment will be through MCQ, Classroom Test, Assignment, Oral Presentation, case study review and Short Projects.

COURSES

The curriculum structure is based on the UGC prescribed curriculum structure. The program consists of Core Courses and Elective Courses.

To acquire a degree in M.Sc. Data Science, a student must study 24 Core Courses including 02 Dissertation/Project and 03 Industrial Internship Courses. Core Courses are of total 88 Credits, Electives are of total 08 Credits and Industrial Internships are of total 06 Credits. For theory classes, one credit indicates one-hour lecture per week while for practical, one credit indicates two hours of practical laboratory session per week.

A student has to earn a minimum of 96 Credits to get a degree in M.Sc. Data Science.

The program offers Elective courses and the students must choose 01 from each option offered in 3rd and 4th Semester. Dissertation/project work is offered in 4th Semester. Student has to undergo Industrial Internship in 1st, 2nd and 3rd Semester which is of 02 Credits per semester.

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COURSE STRUCTURE

Semester I   Semester II   Semester III   Semester IV

Semester – I						
Sr. No.	Course Code	Course Title	L	T	P	C	Marks
Core Course						
1	MSDS101	Mathematical Foundation for Data Science	4	1	0	5	150
2	MSDS102	Advanced Data Structures	3	0	1	4	150
3	MSDS103	Statistics for Data Science-I	3	1	1	5	100
4	MSDS104	R Programming	3	0	1	4	100
5	MSDS105	Object Oriented Programming/Advanced C	3	0	1	4	100
6	MSDS106	Internship – I	0	0	0	2	50
7	MSDS107	Comprehensive Viva-I	0	2	0	2	50
Total						25	700

ADMISSION PROCESS

TOTAL INTAKE

30 Seats

MODE OF ADMISSION

- 55% and above marks in B.Sc./B.E./B.Tech - Candidates are required to appear for an Interaction with experts of the School of Science. Based on the performance, direct admission will be given
- 50% to 55% marks B.Sc./B.E./B.Tech - on the spot Admission Competitive Test (ACT) of 60 min / Interaction with experts of the School of Science.
- Minimum passing marks of Admission Competitive Test (ACT) would be 50% of the total marks. Merit list would be prepared/put up based on the marks obtained
- Second trail for test may be given on request by student
- The Admission Competitive Test (ACT) shall be consisting of Objective questions related to Subject and English, Verbal Abilities, Reading Comprehension, Quantitative Aptitude, Logical Reasoning and General Knowledge.
- There will be no negative marking.

QUALIFYING EXAMINATION

A Bachelor's Degree in Science or Technology or Computer Applications from a recognized University.

REGISTRATION FEES

The registration fee for submitting online application form is Rs. 500/- (Rupees Five Hundred Only), which is to be paid online.

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ELIGIBILITY FOR ADMISSION

recognized University in Computer Science, Information Technology, and Electronics/Electronics, and Communication / Electrical Engineering can also apply. Candidates with BCA, B.Sc. (IT) and B.Sc. (Data Science) degrees can also apply. Candidates who have appeared for the final semester of the qualifying examination can also apply.

CONTACT CO-ORDINATOR

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E-CENTRE

Sample Paper for Entrance Test   University Brochure   Detailed Curriculum

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