

# **GUJARAT UNIVERSITY**

## **M.Sc. (Integrated) in Data Science (Five years full time)**

### **About Gujarat University**

Gujarat University is the oldest and biggest university of the state established on 23<sup>rd</sup> November 1949. The University is spread on 260 acres of land situated in the heart of Ahmedabad city. The number of affiliated colleges is 286; recognized institutes are 22 and approved institutions are 24. There are 36 postgraduate university departments and 221 PG centers. There are 14 faculties offering various courses. Gujarat University is an affiliating university at the undergraduate level, while it is teaching one at the post graduate level. Gujarat University has developed phenomenally in the last 67 years to be recognized as a premier university in the country today. It provides education in one of the widest range of disciplines to about two lakh students.

### **About the Data Science Profession:**

In the growing world of big data, it is important to have an effective data science strategy to help make informed business decisions. A Data Scientist is a high-ranking professional with the training and curiosity to make discoveries in the world of Big Data. Therefore it comes as no surprise that Data Scientists are coveted professionals in the Big Data Analytics and IT industry. The Data Science career opportunities for skilled professionals in IT world will be having huge demand for Data Scientists in start-ups as well as well-established companies. This discipline's applications enable Data Scientists, Predictive Modelers, and other analytics professionals to analyze growing volumes of structured transaction data. It leads to smarter business moves, more efficient operations, higher profits and more satisfied customers. Big Data Analytics examines large amounts of data to uncover hidden patterns, correlations and other insights. The most emerging area in today's technology sector including Big Data Analytics helps organization harness their data and use it to identify new opportunities.

### **Program objectives:**

This program lays the foundation of the core data science, data management, advanced database operations. M.Sc. Data Science program aims to impart training to enrolled students with regard to existing and evolving techniques and theories related to information retrieval, big data analysis, data mining, data warehousing and data visualization, data security, etc. Classroom training in this course will also help students to be industry ready with better career perspectives.

**Number of seats:** 60

**Duration of the Program:** 5 years (spread over ten semesters)

Students will have an option to exit after three years with a B.Sc. in Data Science (with honours) degree

**Course Fees:** (per semester)

Semester 1 to 6 : Rs. 37,600/-

Semester 7 to 10: Rs. 37,600/--

### **Minimum Eligibility (who can apply):**

Students with a minimum of 10+2 years of formal education in Science or Commerce with Mathematics/Statistics/Accountancy/Physics/Chemistry/Biology at the 10+2 level.

The admission process will be through Gujarat University Admission Committee – 2019 under the B.Com Portal. Interested candidates have to select this course from online admission portal. The admission will be on merit basis.

### **Contact for any query:**

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## **CAREER OPPORTUNITIES**

### **DATA SCIENCE**

In a world where 2.5 quintillion bytes of data is produced every day, a professional who can organize this humongous data to provide business solutions is much sought after. A Data Scientist, according to Harvard Business Review, “is a high-ranking professional with the training and curiosity to make discoveries in the world of Big Data”. Therefore it comes as no surprise that Data Scientists are coveted professionals in the Big Data Analytics and IT industry.

Shortage of skilled professionals in a world which is increasingly turning to data for decision making has also led to the huge demand for Data Scientists in start-ups as well as well-established companies. A corporate consulting firm study states that by 2020, the world will face a shortage of about 8,00,000 professionals with deep analytical skills. With the Big Data wave showing no signs of slowing down, there’s a rush among global companies to hire Data Scientists to tame their business-critical Big Data.

Not only are Data Scientists responsible for business analytics, they are also involved in building data products and software platforms, along with developing visualizations and machine learning algorithms. Some of the prominent Data Scientist job titles are: Data Scientist, Data Architect, Data Administrator, Data Analyst, Business Analyst, Data/Analytics Manager, Business Intelligence Manager.