



BACHELOR OF SCIENCE (B. S. Hons.)

DATA SCIENCE & ANALYTICS





4 Years Programme

**M.G. SCIENCE INSTITUTE
[AUTONOMOUS]**

UNDERSTANDING AUTONOMY

- Autonomy is the prestigious status conferred by the UGC to reputable colleges with outstanding performance and a history of excellence. The Autonomy status grants institutions the authority to independently design and implement their academic programmes and curriculum.
- At M.G. Science, we take immense pride in being recognized as an autonomous institution conferred with the esteemed status by the UGC. This distinction signifies our unwavering commitment to academic excellence and innovation in education. As an autonomous college affiliated with Gujarat University, we have complete control over designing our own programmes and curricula. This ensures that our students receive a dynamic and industry-relevant education.








WHAT AUTONOMY MEANS FOR THE STUDENTS

-  **CURRICULAR FREEDOM:** Autonomous colleges like M.G. Science Institute have the authority to craft their own programmes and curriculum. This means that we can craft our courses to meet the evolving needs of the industry, incorporate cutting-edge technology, and address societal demands.
-  **DEGREE AFFILIATION:** While we have the autonomy to design our curriculum, it's important to note that the college continues to be affiliated with Gujarat University, and the degree is conferred by Gujarat University, ensuring that our qualifications maintain their credibility and recognition.
-  **INDUSTRY-RELEVANT EDUCATION:** With the freedom to decide our curriculum, we prioritize staying abreast of industry trends, integrating state-of-the-art technology, and incorporating timely updates. This ensures that our courses remain relevant and aligned with the demands of the modern workforce.
-  **FLEXIBILITY AND ADAPTABILITY:** Having an "Autonomous" status, we have the flexibility to update our courses as needed, ensuring that our students are equipped with the most up-to-date knowledge and skills. This means that you will not be learning outdated concepts but rather staying ahead of the curve in your field of study.

BACHELOR OF SCIENCE (B.S. HONS.) DATA SCIENCE & ANALYTICS

B.S. (Hons.) in Data Science and Analytics is a 4-year undergraduate programme spread over eight semesters. The course comes under the domain of computer science, Business Analytics, and Artificial Intelligence. Data Science and Analytics is an interdisciplinary subject that includes Statistics, Big-Data analysis, and Machine Learning in order to understand the problem with respect to a set of real-world data. B.S. (Hons.) with DSA is intended to provide data analytics, machine learning techniques, and their applications for effective decision-making in improving business processes.

PROGRAMME HIGHLIGHTS

-  **INTERDISCIPLINARY APPROACH:** Dive deep into the realms of computer science, business analytics, and artificial intelligence.
-  **CUTTING-EDGE CURRICULUM:** Gain expertise in data analytics, machine learning techniques, and their practical applications for effective decision-making in business processes.
-  **CHOICE-BASED CREDIT SYSTEM:** Tailor your learning experience with our flexible Choice-Based Credit System (CBCS). Select from a range of courses comprising core, minor, multidisciplinary, and skill-based modules to customize your academic journey.
-  **INDUSTRY PROJECTS:** Gain practical experience through industry projects and internships.
-  **GUEST LECTURES:** Benefit from insights shared by industry professionals and academics.
-  **GLOBAL OPPORTUNITIES:** Explore international collaborations and exchange programs.
-  **CAREER SUPPORT:** Receive guidance for internships, job opportunities, and career development.

PROGRAMME OUTCOMES

- Built strong foundations in core areas of data science with a focus on Data Science and Analytics so that learners can contribute significantly in the area of data analytics, research, and innovation.

- Develop professionals with high competency in recent tools and techniques related to Data Science and Analytics.
- Inculcate strong human values and social, interpersonal, and leadership skills required for professional success in evolving global professional environments
- Apply the knowledge of data sciences and analytics to the solution of complex societal problems.
- Acquire a rich basket of skill enhancement courses and soft skill courses instilling self-confidence and moral values.
- Competence in programming languages commonly used in data science, such as Python or R.
- Understanding of fundamental machine learning concepts and algorithms. Application of machine learning techniques to solve real-world problems and make predictions.
- Experience working in collaborative environments, particularly on interdisciplinary teams. Ability to contribute to group projects and share knowledge with team members.
- Build young minds with a research attitude concerning the needs of society.
- Application of data science techniques to solve real-world problems through capstone projects or internships.

CAREER PROSPECTS

**Data Analysts | Data Scientists | Machine Learning Engineer | Business Analysts
Data Engineer | Quantitative Analysts | Market Research Analysts | Consultant**

JOIN US TODAY

Join us in shaping the future of technology and business analytics. Enroll in our B.S. (Hons.) DSA program and unlock a world of possibilities today! For more information and admissions, contact us today.

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