



BACHELOR OF SCIENCE (B. S. Hons.)
BIOTECHNOLOGY
4 Years Programme

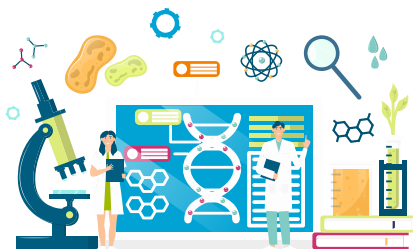
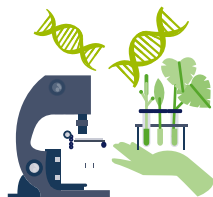
M.G. SCIENCE INSTITUTE
[AUTONOMOUS]

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

1. **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.
2. **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.
3. **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.
4. **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 This means that you will not be learning outdated concepts but rather staying ahead of the curve in your field of study.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.) BIOTECHNOLOGY

Welcome to the Bachelor of Science (B.S) in Biotechnology programme, an interdisciplinary field at the forefront of scientific innovation and technological advancement. This programme is designed to provide students with a comprehensive understanding of the principles, applications, and ethical considerations of biotechnology, preparing them for dynamic careers in research, industry, healthcare, and beyond.

PROGRAMME HIGHLIGHTS

- **CHOICE-BASED CREDIT SYSTEM:** Tailor your education with the flexibility to choose courses from a diverse range of electives, including multidisciplinary and skill enhancement courses.
- **GLOBAL PERSPECTIVE:** Gain awareness of biotechnology's global impact on society, environment, and health, fostering cross-cultural dialogue and collaboration.
- **PROGRAMME STRUCTURE:** The B.S. in Biotechnology is a four-year programme divided into eight semesters, requiring the completion of 176 credits for the degree.
- **MULTIPLE EXIT OPTIONS:** The programme provides the exit option to the aspirants at the end of the first year with UG Certificate awarded, at the end of the second year with UG Diploma awarded, at the end of the third year with UG Degree awarded and at the end of the fourth year with UG Honors Degree awarded
- **INTERNSHIP OPPORTUNITIES:** Every learner participates in internships or apprenticeships in firms, industries, organizations, or research institutions, enhancing practical skills and professional development.

PROGRAMME OUTCOMES

- **BUILT STRONG FOUNDATIONS IN CORE AREAS OF DATA SCIENCE:** Our programme ensures students develop a solid understanding of data science principles, focusing on data analytics, research, and innovation, enabling them to contribute significantly to these areas.

- **DEVELOP PROFESSIONALS WITH HIGH COMPETENCY IN RECENT TOOLS AND TECHNIQUES:** Students acquire proficiency in the latest tools and techniques related to data science and analytics, empowering them to tackle complex challenges and remain at the forefront of technological advancements.
- **INCULCATE STRONG HUMAN VALUES AND SOCIAL, INTERPERSONAL, AND LEADERSHIP SKILLS:** Beyond technical expertise, our curriculum emphasizes the importance of human values and social skills essential for professional success, preparing graduates to excel in diverse global professional environments.
- **RIGOROUS CURRICULUM INTEGRATING FOUNDATIONAL KNOWLEDGE:** The B.S. in Biotechnology programme integrates foundational knowledge in biology, chemistry, mathematics, and engineering with specialized biotechnology courses, ensuring a well-rounded education.
- **EXPLORATION OF DIVERSE APPLICATIONS OF BIOTECHNOLOGY:** Students explore various applications in biotechnology, including genetic engineering, medical biotechnology, agricultural biotechnology, environmental biotechnology, and industrial biotechnology, broadening their understanding of the field.
- **DEVELOPMENT OF PRACTICAL SKILLS AND CRITICAL THINKING ABILITIES:** Through hands-on laboratory experiences, research projects, and industry internships, students cultivate practical skills and critical thinking abilities necessary for success in the biotechnology industry.
- **GRADUATE ATTRIBUTES:** Develop essential competencies such as technical proficiency, critical thinking, ethical awareness, communication skills, teamwork, professionalism, entrepreneurial mindset, and global awareness.

CAREER PROSPECTS


Biotechnologists | Agricultural Biotechnologists | Environmental Biotechnologists
 Clinical Laboratory Technologists | Bioinformatics Analysts | Medical Science
 Liaison | Stem Cell Researcher | Gene Therapists | Clinical Data Manager
 Bioethicist | Bioinformatics Scientists | Nanobiotechnologists | Clinical Research
 Associate

JOIN US TODAY

Embark on a journey of discovery and innovation with a B.S. in Biotechnology at M.G. Science Institute. Prepare to unlock your potential, make meaningful contributions to society, and shape the future of biotechnology. Apply now and embark on a transformative educational experience that will propel you toward a rewarding career in this dynamic field.

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