



# **BACHELOR OF SCIENCE (B. S. Hons.)**

## **COMPUTER SCIENCE**

**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 This means that you will not be learning outdated concepts but rather staying ahead of the curve in your field of study.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.) COMPUTER SCIENCE

In the age of digital transformation and technological evolution, the Bachelor of Science in Computer Science (B.S. (Hons.) C.S.) program at M.G. Science Institute stands as a beacon of intellectual principles of intellectual exploration, technical mastery, and holistic development. Rooted in the principles of innovation, collaboration, and ethical responsibilities, our B.S. (Hons.) C.S. programme is designed to prepare students for dynamic careers in the ever-evolving field of computer applications.

## PROGRAMME HIGHLIGHTS

- **CUTTING-EDGE CURRICULUM:** Our programme is crafted to provide our aspirants with a comprehensive understanding of computer science principles, including programming languages, software development, and database management. Understanding of algorithms, data structures, and computer architecture.
- **HANDS-ON LEARNING:** Experience practical learning through a set of pedagogical tools and techniques or teaching and learning activities that aim to help students attain the intended learning outcomes and engage them in these learning activities through the teaching process.
- **CHOICE-BASED CREDIT SYSTEM:** The Choice-Based Credit System (CBCS) provides an opportunity for the students to choose courses from the prescribed courses comprising Core, minor, multi-disciplinary, or skill-based courses that align with their interests and career aspirations.
- **INDUSTRY-RELEVANT SKILLS:** Every learner must undergo and complete the internships/apprenticeships in a firm/ industry/organization or training in labs with faculty or researchers in their own or another college/institute/research institution during the summer term to gain industry-relevant skills.
- **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

## PROGRAMME OUTCOMES

Expected outcomes that a student should be able to demonstrate are the following:

1. To provide students with the required knowledge and necessary skills to get rewarding careers in the changing world of information technology.
2. Provide a foundation of computing principles and business practices for effectively using/managing information systems and enterprise software.
3. To specialize in legacy applications, system software, and mobile applications.
4. Think of new approaches for solving real-world problems across different domains.
5. To cater to the need of managing the business applications.
6. Be in a position to develop industrial applications.

## CAREER PROSPECTS

- After the successful completion of the Bachelor of Science (Hons.) in Computer Science program at M.G. Science Institute, our aspirants will be equipped with a diverse skill set and knowledge base that opens doors to numerous career prospects in the rapidly developing field of computer science.
- Here are some of the career prospects awaiting our graduates:

**Software Engineer | Computer Programmer | System Analysts | System Manager  
Technical Analysts | Software Developer | System Support Manager | Programmer  
Database Administrator | Network Support Executive | Web Developer | Web  
Designer | Network Analysts | Technical Support Developer | Software QA**

## JOIN US TODAY

Join us at M.G. Science Institute and unleash your potential in the dynamic field of Computer Science. Your journey to a successful and fulfilling career starts here. Apply now and redefine what's possible in the digital world!

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 [www.mgscience.ac.in](http://www.mgscience.ac.in)

