



MAGANBHAI ADENWALA MAHAGUJARAT UNIVERSITY

FACULTY OF INFORMATION SCIENCE & MANAGEMENT

INFORMATION BOOKLET

For

BACHELOR OF SCIENCE

[INFORMATION TECHNOLOGY]

B.SC. (I.T.)



Academic Year 2023-24

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BACHELOR OF SCIENCE

[INFORMATION TECHNOLOGY]

B.SC. (I.T.)

(Three Years Full Time Course)

The Mam University

With vision to establish & develop world class self-reliant institutes for imparting Medical, Paramedical, Technical, Management, Science and all allied education at under-graduate, post-graduate & doctoral levels of the global competence, Mahagujarat Medical Society Nadiad has established Maganbhai Adenwala Mahagujarat University – **MAM University** under Gujrat State Private University Act -2022 (Amendment Act No 7 of 2022) from 1stJune 2022.

Presently the MAM University has couple of Faculties like Faculty of Ayurveda – J S Ayurveda Mahavidhyalay, Faculty of Nursing- Dinsha Patel College of Nursing, Faculty of Information Science & Management & Faculty of Paramedical Science. At present the University offers Under Graduate, Post graduate, Ph.D., Fellowship Programmes, Certificate courses, PG Diploma and Diploma Courses at various Faculties.

Faculty of Information Science & Management

MAM University has added recently one more feather in the form of Faculty of Information Science & Management. It offers Bachelor Degree in Information Technology B.Sc. (IT), Bachelor of Computer Applications (BCA), various PG Diploma, Fellowship Programmes



and Certificate Programmes in the field of Management & Information Science which caters the need of present era.

Introduction About B. Sc. (IT)

The refers to a Bachelor Degree in Information Technology. At the undergraduate level, B.Sc. (IT) is one of the most sought-after programs. The B.Sc. Information Technology is a three-year undergraduate science program that teaches students about software, databases, and networking. Its goal is to give students both theoretical and practical knowledge about how to safely store, process, and manage information. Instead of focusing on specific technologies, the course emphasizes both theoretical and practical approach. One will gain knowledge of database management, networking, information security, storage, and processing.

Eligibility criteria for B. Sc. (IT)

Successful completion of a 10+2 or equivalent examination with any stream from a recognized board is required to be eligible for B.Sc. (IT) admission. Candidates will be evaluated based on their board exam scores during the merit-based admissions process.

Scope after B.Sc. IT course

- ❖ Major corporations like TCS, Infosys, Wipro, Vodafone, and HCL have many positions for B.Sc. (IT) graduates.
- ❖ B.Sc. (IT) graduates can apply for jobs in education, pharmacy, space research, biotechnology, and environmental management, among other areas.
- ❖ The IT sector of the Indian economy is one of the best-performing ones, with industry revenue exceeding \$226 billion in FY 2022.
- ❖ IT companies in India hired 4.5 million workers, demonstrating the industry's need for a lot of resources.



- ❖ The IT sector has a number of verticals, such as BFSI, telecom, and retail, that support the sector's growth through a variety of channels.
- ❖ There are open positions in the IT software industry at Central and State Government Departments, UPSC, and public sector banks like State Bank of India, Central Bank of India, and Canara Bank, among others.
- ❖ Students who earn a B.Sc. (IT) can pursue an MSc in IT or MCA, which will expand their employment options. With a postgraduate degree, you can also work as a teacher.

Who should do BSc IT?

- ❖ Candidates who want to work in database management, programming, or networking.
- ❖ Students who are interested in creative work like graphic design, web design, or application programming
- ❖ Tech-savvy individuals who want to work in IT and software technologies.

Major subjects cover at B.Sc.(IT)

Technical Communication Skills, Data Structure Using C Language, Computer Organization and Architecture, Mathematical & Statistical Foundation of Computer Science, Networking and Internet Environment, Content Management System Using Joomla, Web Programming, Digital Electronics, Information Theory & Applications, Data Structures and File Organization, Network Security and Cyber Law, Android Programming, computer Graphics etc. are the main subjects covered at B.Sc.(IT). Beside all these subjects, at the final year; a mini project is also a part of syllabus for the B.Sc.(IT).



B.Sc. IT Vs B.C.A.

Both B.Sc. IT and B.C.A. are different but looks similar as both focus on technology and programming. The table below shows how the courses differ in relation to respective parameters.

Parameters	B.Sc. IT	B.C.A.
Full Form	Bachelor of Science in Information Technology	Bachelor of Computer Application
Course Overview	B.Sc. (IT) focuses on databases, networking and software	BCA revolves around computer and its applications
Admission Basis	Merit and Entrance exam	Merit and Entrance exam.
Subjects	Networking and Internet Environment, Web Programming, Digital Electronics, Information Theory & Applications, Computer Science	C Programming, Operating Systems, Multimedia Systems, Data and Database Management Systems, etc.
Job Profiles	Software Developer, IT Specialist, Quality Analyst, Technology Engineer, Programmer	Computer Technician, Computer Maintenance Engineer, Computer System Analyst, Computer Programmer