



Gujarat University

Department of Computer Science

Rollwala Computer Centre



“The Mission of the department is to usher in era of quality software professionalism relevant and useful to the industry, business and other organization. The basic purpose of this MCA & M.Tech program is to expose the students to the real world issues, encourage them to pursue the course that fits one’s career goals and prepare them to prove themselves in any National / Internationals scenario.”

MCA (Master in Computer Application)

Duration: 3 years (spread over six semesters) **Eligibility:** Graduate (Eligibility Norms are governed by State Government GR) **Intake:** 30

Fees:	SEM	BOYS	GIRLS
	I	3450	1790
	II-VI	3140	1390

Semester – I

- Fundamental of programming
- Discrete mathematics
- Fundamental of computer organization
- Database management system – I
- Enterprise resources & financial management
- Software lab

Semester – II

- Data Structures
- Object Oriented Concepts of Programming
- Computer Oriented Numerical Methods
- Database Management Systems -II
- Management Information System
- Theory of Computation

Semester – III

- Client Server Architecture & Interfaces
- Java Programming
- Computer Oriented Statistical Methods
- System Software
- Operating Systems
- Technical Writing And Communication Skills

Semester – IV

- Software Construction
- Computer Based Optimization Models
- Fundamentals of Networking
- Structured & Object Oriented Analysis Design and Modelling
- Distributed Application Development
- **Elective –I***
 1. Artificial Intelligence
 2. Compiler Construction
 3. Parallel Processing
 4. Computer Graphics
 5. Software Project Management
 6. Data Warehousing & Data Mining

Semester – V

- Advanced Networking & Network Administration
- Web Technologies & Applications
- Software Engineering
- Dissertation

Elective –II*

1. Soft Computing
2. Embedded Systems
3. Wireless Technologies (Mobile Computing)
4. Distributed Operating System
5. Multimedia
6. Windows Programming

Elective –III*

1. Bioinformatics
2. Network Security
3. Distributed & Cluster Computing
4. Image Processing
5. ERP
6. Linux programming

Semester – VI

- System Development Program

- UGC Recognized
- Subject Expert Faculty
- Placement Assistance
- Gujarat University Startup & Entrepreneurship Council (www.gusec.org)

- Well Designed Courses
- Practical Hand – on in each Subject
- Well Placed Alumni

- Regular study program
- Well Equipped LAB
- Hostel Facility

Department of Computer Science

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