

GUJARAT UNIVERSITY
PROPOSED SUBJECTS FOR REVISION OF MCA SYLLABUS

FIRST YEAR

MCA – Semester – I					
Fundamentals of Programming	Discrete Mathematics for Computer Science	Fundamentals of Computer Organization	Database Management Systems - I	Enterprise Resources & Financial Management	Software Lab

MCA – Semester – II					
Data Structures	Object Oriented Concepts & Programming	Computer Oriented Numerical Methods	Database Management Systems - II	Management Information Systems	Theory of Computation

SECOND YEAR

MCA – Semester – III					
Client Server Architecture & Interfaces	Java Programming	Computer Oriented Statistical Methods	System Software	Operating Systems	Technical Writing and Communication Skills

MCA – Semester – IV					
Software Construction	Computer Based Optimization Models	Fundamentals of Networking	Structured & Object Oriented Analysis Design and Modeling	Distributed Application Development	Elective – I

Elective – I

1. Artificial Intelligence
2. Compiler Construction
3. Parallel Processing
4. Computer Graphics
5. Software Project Management
6. Data Warehousing & Data Mining

THIRD YEAR

MCA – Semester – V					
Advanced Networking & Network Management	Web Technologies & Applications	Software Engineering	Elective –II	Elective -III	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

MCA – Semester – VI
System Development Project (Project Work at Industry)