Master of Computer Science (M.C.A.)
(Three Years Full Time Master Degree)
Computer Department , Hem. North Gujarat University,
Patan-384265, Gujarat State

Semester – I
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MCA11  Mathematics – I
MCA12  Financial Accounting & Management
MCA13  Introduction to Programming Language
MCA14  Internet & Web – I
MCA15  Database Management System
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Semester – II
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MCA21  Computer Oriented Numerical & Statistical Methods
MCA22  Software Engineering
MCA23  Operating System & UNIX
MCA24  Object Technology - I
MCA25  Advance Database Architecture
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Semester - III
```
MCA31  Data Structure
MCA32  System Programming
MCA33  Object Technology - II
MCA34  Operation Research
MCA35  Software Engineering
MCA36  Operating System
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Semester - IV
```
MCA41  Computer Graphics & Multimedia
MCA42  Advanced Technology – I
MCA43  Embedded Systems
MCA44  Networking – II
MCA45  Data Warehousing and Data Mining
MCA46  Computer based Management System
MCA47  Industrial Project – I
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Semester - V
```
MCA51  Object Oriented analysis & Design With UML
MCA52  Artificial Intelligence
MCA53  Advanced Web Technology - II
MCA54  Elective - I
MCA55  Elective – II
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Semester – VI
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MCA6  System Development Project – II
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Elective Subject

EL-1 Geographic Information System
EL-2 Digital Image Processing
EL-3 Bio-Informatics
EL-4 Enterprise Resource Planning
EL-5 Project Management Practices and Evaluation
EL-6 Web Development using PHP
EL-7 Embedded Systems
EL-8 Personality Development & Aptitude Test