

COURSE STRUCTURE FOR MCA

FIRST SEMESTER

A. THEORY

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SL. | CODE |  | THEORY |  |  | CONTACTS |  |
| NO. |  |  |  |  | (PERIODS/WEEK) | CREDITS |
|  |  |  |  |  | L | T | P | TOTAL |  |
| 1 | MCA101 | Computer Organisation & |  | 3 | 1 | - | 4 | 4 |
|  |  | Architecture |  |  |  |  |  |  |
| 2 | MCA102 | Business Systems and |  | 3 | 1 | - | 4 | 4 |
|  |  | Applications |  |  |  |  |  |  |
| 3 | MCA103 | Computer Programming with C |  | 3 | 1 | - | 4 | 4 |
| 4 | MCA104 | Discrete Mathematical Structure |  | 3 | 1 | - | 4 | 4 |
| 5 | MCA105 | Business English and |  | 3 | 1 | - | 4 | 4 |
|  |  | Communication |  |  |  |  |  |  |
|  |  |  | Total of Theory |  |  |  |  | 20 | 20 |
| B. PRACTICAL/SESSIONAL |
| 6 | MCA191 | Micro | Programming | & | - | - | 4 | 4 | 3 |
|  |  | Architecture Lab |  |  |  |  |  |  |
| 7 | MCA192 | Programming lab (C) |  | - | - | 4 | 4 | 3 |
| 8 | MCA181 | Seminar-1 |  | - | - | 4 | 4 | 3 |
| 9 | MCA(GS)181 |  General Studies - I | 3 | 1 | 0 | 4 | 4 |
| Total of Practical/Sessional | 16 | 13 |
|  |  |  | Total of Semester |  |  | 36 |  | 33 |

 

 COURSE STRUCTURE FOR MCA

SECOND SEMESTER

A. THEORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SL. | CODE | THEORY |  | CONTACTS |  |
| NO. |  |  | (PERIODS/WEEK) | CREDITS |
|  |  |  | L | T | P | TOTAL |  |
| 1 | MCA201 | Data Communication & Computer | 3 | 1 | - | 4 | 4 |
|  |  | Networks |  |  |  |  |  |
| 2 | MCA202 | Information Systems Analysis & | 3 | 1 | - | 4 | 4 |
|  |  | Design |  |  |  |  |  |
| 3 | MCA203 | Data Structures with C | 3 | 1 | - | 4 | 4 |
| 4 | MCA204 | Data Base Management System I | 3 | 1 | - | 4 | 4 |
| 5 | MCA205 | Object-Oriented Programming | 3 | 1 | - | 4 | 4 |
|  |  | With C++ |  |  |  |  |  |
|  |  | Total of Theory |  |  |  | 20 | 20 |
| B. PRACTICAL/SESSIONAL |
| 6 | MCA293 | Data structure lab | - | - | 4 | 4 | 3 |
| 7 | MCA294 | Database lab | - | - | 4 | 4 | 3 |
| 8 | MCA295 | Object-Oriented Programming lab in C++ | - | - | 4 | 4 | 3 |
| 9 | MCA(GS)281 |  General Studies - II | 3 | 1 | 0 | 4 | 4 |
|  |  | Total of Practical/Sessional |  |  |  | 16 | 13 |
|  |  | Total of Semester |  |  | 36 |  | 33 |

 

COURSE STRUCTURE FOR MCA

Third Semester

A. THEORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SL. | CODE | THEORY |  | CONTACTS |  |
| NO. |  |  | (PERIODS/WEEK) | CREDITS |
|  |  |  | L | T | P | TOTAL |  |
| 1 | MCA301 | Operating Systems and Systems | 3 | 1 | - | 4 | 4 |
|  |  | Software |  |  |  |  |  |
| 2 | MCA302 | Unix and Shell Programming | 3 | 1 | - | 4 | 4 |
| 3 | MCA303 | Intelligent Systems | 3 | 1 | - | 4 | 4 |
| 4 | MCA304 | Statistics and Numerical | 3 | 1 | - | 4 | 4 |
|  |  | Techniques |  |  |  |  |  |
| 5 | MCA305 | Business Management | 2 | - | - | 2 | 2 |
| 6 | MCA306 | Management Accounting | 2 | - | - | 2 | 2 |
|  |  | Total of Theory |  |  |  | 20 | 20 |
| B. PRACTICAL/SESSIONAL |
| 7 | MCA391 | Unix lab | - | - | 4 | 4 | 3 |
| 8 | MCA392 | Statistics and Numerical Analysis | - | - | 4 | 4 | 3 |
|  |  | lab |  |  |  |  |  |
| 9 | MCA393 | Accounting Systems lab | - | - | 4 | 4 | 3 |
| 10 | MCA(GS)381 |  General Studies - III | 3 | 1 | 0 | 4 | 4 |
|  |  | Total of Practical/Sessional |  |  |  | 16 | 13 |
|  |  | Total of Semester |  |  | 36 |  | 33 |

 

COURSE STRUCTURE FOR MCA

Fourth Semester

A. THEORY

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SL. | CODE |  | THEORY |  |  | CONTACTS |  |
| NO. |  |  |  |  | (PERIODS/WEEK) | CREDITS |
|  |  |  |  |  | L | T | P | TOTAL |  |
| 1 | MCA401 | Software Engineering & TQM |  | 3 | 1 | - | 4 | 4 |
| 2 | MCA402 | Graphics & Multimedia |  | 3 | 1 | - | 4 | 4 |
| 3 | MCA403 | Data Base Management System II | 3 | 1 | - | 4 | 4 |
| 4 | MCA404 | Operation | Research | & | 3 | 1 | - | 4 | 4 |
|  |  | Optimisation Techniques |  |  |  |  |  |  |
| 5 | MCA405 | Environment and Ecology |  | 3 | - | - | 3 | 3 |
|  |  | Total of Theory |  |  |  |  | 19 | 19 |
| B. PRACTICAL/SESSIONAL |
| 6 | MCA491 | Software Project Management lab | - | - | 4 | 4 | 3 |
| 7 | MCA492 | Graphics & Multimedia Lab |  | - | - | 4 | 4 | 3 |
| 8 | MCA493 | Advanced Database lab |  | - | - | 4 | 4 | 3 |
| 9 | MCA(GS)481 |  General Studies - IV |  | 3 | 1 | 0 | 4 | 4 |
|  | Total of Practical/Sessional | 16 | 13 |
|  |  |  | Total of Semester |  |  | 35 |  | 32 |

 

COURSE STRUCTURE FOR MCA

Fifth Semester

A. THEORY

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SL. | CODE | THEORY |  | CONTACTS |  |
| NO. |  |  | (PERIODS/WEEK) | CREDITS |
|  |  |  | L | T | P | TOTAL |  |
| 1 | MCA | Elective 1 | 3 | 1 | - | 4 | 4 |
|  | E501/A/B/C |  |  |  |  |  |  |
| 2 | MCA | Elective 2 | 3 | 1 | - | 4 | 4 |
|  | E502/A/B |  |  |  |  |  |  |
| 3 | MCA | Elective 3 | 3 | 1 | - | 4 | 4 |
|  | E503/A/B |  |  |  |  |  |  |
| 4 | MCA | Elective 4 | 3 | 1 | - | 4 | 4 |
|  | E504/A/B |  |  |  |  |  |  |
| 5 | MCAE505/A/B | Values and Ethics of Profession | 3 | - | - | 3 | 3 |
|  |  | Total of Theory |  |  |  | 19 | 19 |
| B. PRACTICAL/SESSIONAL |
| 6 | MCA591 | Minor project and seminar | - | - | 12 | 12 | 9 |
|  |  |  |  |  |  |  |  |
| 7 | MCAE592/A/B | Elective 2 Lab | - | - | 4 | 4 | 3 |
| 8 | MCA(GS)581 |  General Studies - V | 3 | 1 | 0 | 4 | 4 |  |
|  |  | Total of Practical/Sessional |  |  |  | 20 | 16 |
|  |  | Total of Semester |  |  | 39 |  | 35 |

 

COURSE STRUCTURE FOR MCA

Sixth Semester

A. THEORY

|  |  |  |
| --- | --- | --- |
| SL. CODE | THEORY | CONTACTS |
| NO. |  |  | (PERIODS/WEEK) CREDITS |
|  |  |  | L T P TOTAL |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 0 | 0 | - | 0 | 0 |
|  |  | Total of Theory |  |  |  | 0 | 0 |
| B. PRACTICAL |  |  |  |  |  |  |
| 1 | MCA691 | Major project and seminar | - | - | 36 | 36 | 29 |
| 2 | MCA(GS)681 |  General Studies - VI | 3 | 1 | 0 | 4 | 4 |  |
|  |  | Total of Practical |  |  |  | 40 | 33 |
|  |  | Total of Semester |  |  | 40 |  | 33 |

Electives for Semesters 5

|  |  |  |
| --- | --- | --- |
| Elective No | Course Code | Topic |
| 1 |  MCA E501A |  Distributed database management |
|  | MCA E501B | Image Processing  |
|  |  MCA E501C |  Parallel Programming |
|  | MCA502A | System Administration and Linux |
|  | MCAE502B | Windows Programming With VB |
|  | MCA E504B | E-Commerce |
|  | MCA E501A | Distributed database management |
|  | MCA E501B | Image Processing |
|  |  | Paralle |

Summary

|  |  |  |
| --- | --- | --- |
| Semester No | Contact hr/wk | Credit |
| 1 | 32 | 29 |
| 2 | 32 | 29 |
| 3 | 32 | 29 |
| 4 | 31 | 28 |
| 5 | 35 | 31 |
| 6 | 36 | 29 |
| Total |  | 175 |