

School of Computational Science

M. Sc. (Computer Application) & M. Sc. (Computer Network)

| Semester I | | |
|-------------------|--------------------------------|----------------|
| Code No. | Title of the Paper | Credits |
| CA-101 | Computer Fundamentals | 4 |
| CA-102 | Operating System Concepts | 4 |
| CA-103 | Data Structures and Algorithms | 4 |
| CA-104 | C++ | 4 |
| CA-105 | Practical 1 | 2 |
| CA-106 | Practical 2 | 2 |
| CA-107 | Practical 3 | 2 |
| CA-108 | Practical 4 | 2 |
| CA-109 | Seminar | 1 |
| | Total Credits | 25 |

| Semester II | | |
|--------------------|-----------------------------|----------------|
| Code No. | Title of the Paper | Credits |
| CA-201 | Software Engineering | 4 |
| CA-202 | Database Management Systems | 4 |
| CA-203 | Visual Basic | 4 |
| CA-204 | Networking Essentials | 4 |
| CA-205 | Practical 1 | 2 |
| CA-206 | Practical 2 | 2 |
| CA-207 | Practical 3 | 2 |
| CA-208 | Practical 4 | 2 |
| CA-209 | Seminar | 1 |
| | Total Credits | 25 |

Below is the syllabus of
M. Sc. Computer Application 3rd and 4th Semester (IInd Year)

| Semester III | | |
|---------------------|--|----------------|
| Code No. | Title of the Paper | Credits |
| CA-301 | OOPS with Java | 4 |
| CA-302 | Linux Operating System | 4 |
| CA-303 | Elective – I | 4 |
| CA-303 A | Web Technologies and E-Commerce | |
| CA-303 B | Multimedia Technologies | |
| CA-303 C | Internetworking | |
| CA-304 | Elective – II | 4 |
| CA-304 A | Computer System Architecture | |
| CA-304 B | Multimedia on Web | |
| CA-304 C | Network Operating System | |
| CA-305 | Practical 1 | 2 |
| CA-306 | Practical 2 | 2 |
| CA-307 | Practical 3 | 2 |
| CA-308 | Practical 4 | 2 |
| CA-309 | Seminar | 1 |
| | Total Credits | 25 |

| Semester IV | | |
|--------------------|---------------------------|----------------|
| Code No. | Title of the Paper | Credits |
| CA-401 | Software Testing | 4 |
| CA-402 | . NET Technology | 4 |
| CA-403 | Elective –III | 4 |
| CA-403A | ASP | |
| CA-403B | Animation | |
| CA-403C | Network Security | |
| CA-404 | Practical 1 | 2 |
| CA-405 | Practical 2 | 2 |
| CA-406 | Practical 3 | 2 |
| CA-407 | Project/Dissertation | 6 |
| CA-408 | Seminar | 1 |
| | Total Credits | 25 |

Total Credits Semester 1 + Semester 2 + Semester 3 + Semester 4 = 100.

Below is the syllabus of
M. Sc. Computer Network 3rd and 4th Semester (IIInd Year)

| Semester III | | |
|----------------------|---|----------------|
| Code No. | Title of the Paper | Credits |
| CN-301 | Internetworking | 4 |
| CN-302 | Network Operating System Administration | 4 |
| CN-303 | Server Configuration | 4 |
| CN-304 | CGI Programming | 4 |
| CN-305 | Practical 1 | 2 |
| CN-306 | Practical 2 | 2 |
| CN-307 | Practical 3 | 2 |
| CN-308 | Practical 4 | 2 |
| CN-309 | Seminar | 1 |
| Total Credits | | 25 |

| Semester IV | | |
|----------------------|------------------------------|----------------|
| Code No. | Title of the Paper | Credits |
| CN-401 | Network Security | 4 |
| CN-402 | Wireless Networking | 4 |
| CN-403 | Elective | 4 |
| CN-403A | Switching and Routing | |
| CN-403B | ASP | |
| CN-403C | Multimedia on Web | |
| CN-405 | Practical 1 | 2 |
| CN-406 | Practical 2 | 2 |
| CN-407 | Practical 3 | 2 |
| CN-408 | Project/Dissertation | 6 |
| CN-409 | Seminar | 1 |
| Total Credits | | 25 |

Total Credits: Semester 1 + Semester 2 + Semester 3 + Semester 4 = 100.