

# Department of Computer Science

## 0306 Master of Science in Computer Sciences

Specialization: Computer Networks/Database Systems/Multimedia/Information Management/Net-Centric Computing

Shift : Weekend  
 Duration : 2 years, 4 semesters, 33 credit hours  
 Eligibility : MCS / BCS (4 years) / M.Sc. / B.E. or equivalent qualification with at least 50% marks or CGPA 2.50 / 4.00 from any HEC recognized University and qualify University test.

### 1st Semester

Course	Course Title	Credit Hours
CSC-606	Advanced Analysis of Algorithm	3
CSC-625	Research Methods in Computing	3
CSC-6xx	Elective-I	3
CSC-6xx	Elective-II	3

### 2nd Semester

Course	Course Title	Credit Hours
CSC-610	Theory of Computation	3
CSC-6xx	Elective-III	3
CSC-6xx	Elective-IV	3
CSC-6xx	Elective-V	3

### 3rd Semester

Course	Course Title	Credit Hours
CSC-6xx	Elective-VI	3
CSC-699	Research Thesis	3

### 4th Semester

Course	Course Title	Credit Hours
CSC-699	Research Thesis	3

### Elective Courses For Specialization:

#### A. Computer Networks

CSC-603 Network Security & Cryptography  
 CSC-609 Advance Wireless Networks  
 CSC-614 Network Programming  
 CSC-633 Network Simulation & Modeling  
 CSC-XXX Wireless Sensor Networks

#### B. Database Systems

CSC-601 Advance topics in Database  
 CSC-605 Data Warehousing  
 CSC-612 Distributed Database Systems  
 CSC-XXX Management System

#### C. Multimedia

CSC-621 Virtual Reality  
 CSC-622 Advanced Computer Graphics  
 CSC-628 Computer Vision  
 CSC-XXX Human Computer Interaction

#### D. Information Management

CSC-613 Data Mining  
 CSC-629 Machine Learning  
 CSC-630 Utility Computing  
 CSC-631 Digital Image Processing

