MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER I

Object Oriented Programming Using Java
Mathematical Foundations for Computer Applications I
Advanced Operating Systems
Advanced Computer Networks
Python Programming
Advanced DBMS
Cultural Education

SEMESTER II

Data structures and Algorithms
Advanced Web Technologies and Mean Stack
Mathematical Foundations for Computer Applications II
Data mining and Applications
Elective-I
Elective-II
Research Methodologies and Case Study
Data Structures and Algorithms Lab

SEMESTER III

Machine Learning
Software Engineering and Design Patterns
Elective III
Elective IV
Elective V
IoT and Cloud Lab
Open Lab
Dissertation Phase I

SEMESTER IV

Dissertation Phase II

ELECTIVES

Artificial Intelligence
Mobile Application Development
Cryptography
Compiler Design
Big data Analytics and Visualization
C# and .NET
Parallel and Distributed Computing
Advanced Algorithms
Deep Learning

Software Testing
Natural Language Processing
Wireless Networks
Bioinformatics
Network Management and System Administration
Digital Image Processing
Information Retrieval
Semantic Web
Software Defined Networks
Open-Source Systems
Network Security
Database Administration
Pattern Recognition
Block Chain Technologies
Operations Research and Optimization Techniques

MANAGEMENT ELECTIVES
Principles of Economics and Management
Software Project Management
Management Information Systems
Management and Organizational Behavior
Business Intelligence

OPEN LAB
R Programming
MATLAB Programming
High Performance Computing Lab
Natural Language Processing Lab
Cyber Security Lab
Deep Learning Lab

STREAM BASED ELECTIVES

Data Science
Artificial Intelligence
Big Data Analytics and Visualization
Deep Learning
Natural Language Processing
Digital Image Processing
Pattern Recognition

Cyber Security
Cryptography
Network Management and System

Administration
Open-Source Systems
Network Security
Database Administration
Block Chain Technologies

Next Generation Networks
Parallel and Distributed Computing
Wireless Networks
Software Defined Networks