# Online MCA Program

## Syllabus

| SEMESTER 1 | 20 Credits |
|---|---|
| **Subjects** | **Credits** |
| Advanced Database Management System | 4 |
| Advanced Computer Networks | 4 |
| Web Programming | 4 |
| Python Programming | 4 |
| Network Security and Cryptography | 4 |

| SEMESTER 2 | 20 Credits |
|---|---|
| **Subjects** | **Credits** |
| Advanced Internet Programming | 4 |
| Design and Analysis of Algorithms | 4 |
| Software Testing | 4 |
| Program Elective – I | 4 |
| Program Elective – II | 4 |

| SEMESTER 3 | 20 Credits |
|---|---|
| **Subjects** | **Credits** |
| Machine Learning | 4 |

| | |
|---|---|
| Cloud Computing | 4 |
| Automation Software Testing | 4 |
| Robotic Process Automation | 4 |
| Program Elective – III | 4 |

| SEMESTER 4 | 20 Credits |
|---|---|
| **Subjects** | **Credits** |
| Internet of Things | 4 |
| Big Data | 4 |
| Major Project | 12 |

## Programme Elective

| Sem - II : Programme Elective -I | |
|---|---|
| **S.N** | **Course Name** |
| 1 | Web Application Development |
| 2 | Mobile Application Development |
| 3 | Front End Technologies |

| Sem - II : Programme Elective -II | |
|---|---|
| **S.N** | **Course Name** |
| 1 | Cyber Security |
| 2 | Blockchain and its Applications |
| 3 | Artificial Intelligence |

| Sem - III : Programme Elective -III | |
|---|---|
| S.N | Course Name |
| 1 | Advanced Web Application Development |
| 2 | Advanced Mobile Application Development |
| 3 | Back End Technologies |