

# MASTER OF SCIENCE (M.Sc.) INFORMATION TECHNOLOGY – COURSE DETAILS

The M.Sc. Information Technology (IT) course is a 2-year postgraduate degree program divided into 4 semesters. It focuses on software development, networking, cybersecurity, cloud computing, databases, and modern IT technologies.

| Particular     | Details  |
|----------------|--|
| Course Name    | Master of Science in Information Technology              |
| Duration       | 2 Years  |
| Semesters      | 4  |
| Eligibility    | BCA / B.Sc IT / B.Sc CS / B.Tech / Equivalent            |
| Admission      | Merit / Entrance Exam                                    |
| Career Options | Software Developer, Data Analyst, Cyber Security Analyst |

## Semester I

| Subject Code | Subjects                                |
|--------------|---|
| MSCIT101     | Fundamentals of Information Technology  |
| MSCIT102     | Programming in C / Advanced Programming |
| MSCIT103     | Data Structures & Algorithms            |
| MSCIT104     | Object Oriented Programming             |
| MSCIT105     | Software Engineering                    |
| MSCIT106     | Practical Lab                           |

## Semester II

| Subject Code | Subjects                        |
|--------------|---------------------------------|
| MSCIT201     | Operating System                |
| MSCIT202     | Database Management System      |
| MSCIT203     | Computer Networks               |
| MSCIT204     | Analysis & Design of Algorithms |
| MSCIT205     | Web Technologies                |
| MSCIT206     | Practical Lab                   |

## Semester III

| Subject Code | Subjects                       |
|--------------|--------------------------------|
| MSCIT301     | Cyber Security                 |
| MSCIT302     | Cloud Computing                |
| MSCIT303     | Data Mining & Data Warehousing |
| MSCIT304     | Mobile Application Development |

|          |                         |
|----------|-------------------------|
| MSCIT305 | Artificial Intelligence |
| MSCIT306 | Practical Lab           |

## Semester IV

| Subject Code | Subjects                     |
|--------------|------------------------------|
| MSCIT401     | Big Data Analytics           |
| MSCIT402     | Software Project Management  |
| MSCIT403     | Internet of Things (IoT)     |
| MSCIT404     | Dissertation / Major Project |
| MSCIT405     | Viva Voce & Internship       |

### Career Opportunities:

- Software Developer
- System Analyst
- Cyber Security Analyst
- Data Analyst
- Network Engineer
- Cloud Engineer