

ST. THERESA COLLEGE

MCA (Master of Computer Applications)

Course Structure

Semester I

| Code | Course Name | Category | Marks | Credits |
|----------------|-----------------------------------|-----------|-------|---------|
| MSC-100-19 | Discrete Mathematics | Core | 60+40 | 4 |
| MSC-101-19 | Advanced DBMS / Computer Graphics | Choice | 60+40 | 4 |
| MSC-103-19 | Advanced Operating System | Core | 60+40 | 4 |
| MSC-104-19 | Data Structures & Algorithms | Core | 60+40 | 4 |
| MSC-105-19 | Advanced Computer Networks | Core | 60+40 | 4 |
| MSC-Lab | DBMS / Graphics Lab | Core | 60+40 | 4 |
| MSC-Lab-104-19 | Data Structure Lab | Core | 60+40 | 4 |
| Certification | C Programming / DBMS | Term Work | 50 | 2 |

Semester II

| Code | Course Name | Category | Marks | Credits |
|---------------|--------------------------------|-----------|-------|---------|
| MSC-200-19 | Internet Programming / OOP | Core | 60+40 | 4 |
| MSC-202-19 | Linux & Shell Programming | Core | 60+40 | 4 |
| MSC-203-19 | Green Computing | Core | 60+40 | 4 |
| MSC-204-19 | Software Engg / Cyber Security | Choice | 60+40 | 4 |
| MSC-206-19 | Data Mining & Warehousing | Core | 60+40 | 4 |
| MSC-Lab | Programming Labs | Core | 60+40 | 4 |
| Certification | Java Programming | Term Work | 50 | 2 |

Semester III

| Specialization | Subjects |
|----------------------|---------------------------------|
| Software Development | ASP.NET, Android, Advanced Java |
| Data Analytics | Data Analytics, IoT, Python |
| Core | Research Methodology |

Semester IV

| Code | Course Name | Marks | Credits |
|------------|----------------|---------|---------|
| MSC-400-19 | Project | 150+150 | 20 |
| MSC-401-19 | Research Paper | 50+50 | 10 |