**Integral University, Lucknow**

**Department of Computer Application**

**Study and Evaluation Scheme**

**Program: MCA**

**Semester II**

| S. No. | Course code | Course Title | Type of Paper | Period Per hr/week/sem | | | Evaluation Scheme | | | | Sub. Total | Credit | Total Credits | Attributes | | | | | | | Sustainable Development Goals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | L | T | P | UE | TA | Total | ESE | | | | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics | |
| **THEORIES** | | | | | | | | | | | | | | | | | | | | | |
| 1. | CA460 | Data Structure and Analysis of Algorithms | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | | | √ | | | | | 4,9,15 |
| 2. | CA461 | Computer Networks | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | | | 4,9,15 |
| 3. | CA462 | Distributed System | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | | | 4,9,13 |
| 4. | CA463 | Database Management System | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | | | 4,9,15 |
| 5. | CA464 | Object Oriented Programming using JAVA | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | | | 4,9,17 |
| **ELECTIVE** | | | | | | | | | | | | | | | | | | | | | |
| 1. | CA465 | Data Warehousing and Data Mining | Elective-I | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | √ | | | 4,9,15 |
| 2. | CA466 | Data Science | | | | | | | | | | | | √ | | | | √ | | | 4,9,12 |
| 3. | CA467 | ERP Systems | | | | | | | | | | | | √ | | √ | | | | | 4,9,17 |
| 4. | CA468 | Storage Technology and Management | | | | | | | | | | | | √ | √ | √ | | √ | | | 4,9 |
| 5. | CA469 | Automata Theory | | | | | | | | | | | | √ | | √ | | | | | 4,9,15 |
| 6. | CA470 | Android Programming | | | | | | | | | | | | √ | √ | √ | | | | | 4,9 |
| **PRACTICAL** | | | | | | | | | | | | | | | | | | | | | |
| 1. | CA471 | Data Structure and Algorithms Lab | Core | 0 | 0 | 3 | 40 | 20 | 60 | 40 | 100 | 0:0:3 | 1 | √ | √ | √ | | | | | 4,9,12 |
| 2. | CA472 | DBMS Lab | Core | 0 | 0 | 3 | 40 | 20 | 60 | 40 | 100 | 0:0:3 | 1 | √ | √ | √ | | | | | 4,9 |
| 3. | CA473 | JAVA Lab | Core | 0 | 0 | 2 | 40 | 20 | 60 | 40 | 100 | 0:0:2 | 1 | √ | √ | √ | | | | | 4,9 |
| **Total** | | | | 18 | 6 | 8 | 360 | 180 | 540 | 360 | 900 | 18:6:8 | 27 | | | | | | | | |