

BACHELOR OF COMPUTER APPLICATIONS

CBCS PATTERN

(With effect from 2012-2013)

The Course of Study and the Scheme of Examinations

| S.No. | Part | Study Components | | Ins. hrs /week | Credit | Title of the Paper | Subject Codes | Maximum Marks | | |
|---------------------|------|------------------|--------------|----------------|-----------|--------------------------------|---------------|---------------|------------|------------|
| | | Course Title | | | | | | CIA | Uni. Exam | Total |
| SEMESTER I | | | | | | | | | | |
| 1 | I | Language | Paper-1 | 6 | 4 | Tamil/Other Languages | ULT 10 | 25 | 75 | 100 |
| 2 | II | English | Paper-1 | 6 | 4 | English | ULE 10 | 25 | 75 | 100 |
| 3 | III | Core Theory | Paper-1 | 6 | 5 | Digital Logic & Microprocessor | UCA 11 | 25 | 75 | 100 |
| 4 | IIII | Core Practical | Practical-1 | 3 | 0 | PC Software Lab | UPCA 23 | 0 | 0 | 0 |
| 5 | III | ALLIED-1 | Paper-1 | 7 | 4 | Mathematical Foundations - I | UAMA 15B | 25 | 75 | 100 |
| 6 | IV | Environ. Studies | | 2 | 2 | Environmental Science | UES 10 | 10 | 40 | 50 |
| | | | Total | 30 | 19 | | | 110 | 340 | 450 |
| SEM ESTER II | | | | | | | | | | |
| 7 | I | Language | Paper-2 | 6 | 4 | Tamil/Other Languages | ULT 20 | 25 | 75 | 100 |
| 8 | II | English | Paper-2 | 4 | 4 | English | ULE 20 | 25 | 75 | 100 |
| 9 | III | Core Theory | Paper-2 | 6 | 4 | Programming in C | UCA 21 | 25 | 75 | 100 |
| 10 | III | Core Practical | Practical-1 | 0 | 3 | PC Software Lab | UPCA 23 | 40 | 60 | 100 |
| 11 | III | Core Practical | Practical-2 | 3 | 3 | Programming in C Lab | UPCA 24 | 40 | 60 | 100 |
| 12 | III | ALLIED-1 | Paper-2 | 7 | 6 | Mathematical Foundations - II | UAMA 25B | 25 | 75 | 100 |
| 13 | IV | Value education | | 2 | 2 | Value Education | UGA 20 | 10 | 40 | 50 |
| 14 | IV | Soft Skill | | 2 | 1 | Soft Skill | USS 20 | 10 | 40 | 50 |
| | | | Total | 30 | 27 | | | 200 | 500 | 700 |

| SEM ESTER III | | | | | | | | | | | |
|----------------------|-----|---------------------|---------------|-----------|-----------|-------------------------------------------------|----------|------------|------------------|------------|------------|
| | | | | | | | | | | | |
| 15 | III | Core Theory | Paper-3 | 4 | 3 | Programming in C++ | UCA 31 | 25 | Uni. Exam | 75 | 100 |
| 16 | III | Core Theory | Paper-4 | 5 | 3 | Data Structure | UCA 32 | 25 | Uni. Exam | 75 | 100 |
| 17 | III | Core Theory | Paper-5 | 5 | 3 | Computer Networks | UCA 33 | 25 | Uni. Exam | 75 | 100 |
| 18 | III | Core Practical | Practical-1-3 | 4 | 3 | C++ and Data Structure Lab | UPCA 36 | 40 | Uni. Exam | 60 | 100 |
| 19 | III | ALLIED-2 | Paper-3 | 7 | 4 | Financial Accounting - I | UACM 15C | 25 | Uni. Exam | 75 | 100 |
| 20 | IV | Skill based Subject | Paper-1 | 3 | 3 | Management Information Systems (SBS I) | USCA 34 | 15 | Uni. Exam | 60 | 75 |
| 21 | IV | Non-major elective | Paper-1 | 2 | 2 | Introduction to Information Technology (NIME I) | UNCAm35 | 10 | Uni. Exam | 40 | 50 |
| | | | Total | 30 | 21 | | | 165 | Uni. Exam | 460 | 625 |
| SEM ESTER IV | | | | | | | | | | | |
| | | | | | | | | | | | |
| 22 | III | Core Theory | Paper-6 | 5 | 4 | Java Programming | UCA 41 | 25 | Uni. Exam | 75 | 100 |
| 23 | III | Core Theory | Paper-7 | 4 | 3 | System analysis and design | UCA 42 | 25 | Uni. Exam | 75 | 100 |
| 24 | III | Core Theory | Paper-8 | 5 | 3 | E-Commerce | UCA 43 | 25 | Uni. Exam | 75 | 100 |
| 25 | III | Core Practical | Practical-1-4 | 4 | 3 | Java Lab | UPCA 46 | 40 | Uni. Exam | 60 | 100 |
| 26 | III | ALLIED-2 | Paper-4 | 7 | 6 | Financial Accounting - II | UACM 25C | 25 | Uni. Exam | 75 | 100 |
| 27 | IV | Skill based Subject | Paper-2 | 3 | 3 | Mobile Computing | USCA 44 | 15 | Uni. Exam | 60 | 75 |
| 28 | IV | Non-major elective | Paper-2 | 2 | 2 | Internet and its applications (NIME II) | UNCA 45 | 10 | Uni. Exam | 40 | 50 |
| | | | Total | 30 | 24 | | | 165 | Uni. Exam | 460 | 625 |

| SEMESTER V | | | | | | | | | | |
|-------------|-----|----------------------|--------------|-----------|-----------|-------------------------------|----------|------------|------------|------------|
| | | | | | | | | | | |
| 29 | III | Core Theory | Paper-9 | 6 | 5 | Database Management Systems | UCA 51 | 25 | Uni. Exam | 100 |
| 30 | III | Core Theory | Paper-10 | 6 | 5 | Visual Programming | UCA 52 | 25 | 75 | 100 |
| 31 | III | Core Practical | Practical- 5 | 4 | 3 | RDBMS LAB | UPCA 55 | 40 | 60 | 100 |
| 32 | III | Core Practical | Practical-6 | 4 | 3 | Visual Programming Lab | UPCA 56 | 40 | 60 | 100 |
| 34 | III | | Demo | 4 | 0 | Internet | | 0 | 0 | 0 |
| 35 | III | Elective | Paper-1 | 3 | 3 | Software Engineering | UECA 53B | 25 | 75 | 100 |
| 36 | IV | Skill based Subject | Paper-3 | 3 | 3 | Cryptography | USCA 54 | 15 | 60 | 75 |
| | | | Total | 30 | 22 | | | 170 | 405 | 575 |
| SEMESTER VI | | | | | | | | | | |
| 37 | III | Core Theory | Paper-11 | 7 | 6 | Open Source Software | UCA 61 | 25 | 75 | 100 |
| 38 | III | Core Theory | Paper-12 | 6 | 5 | Multimedia | UCA 62 | 25 | 75 | 100 |
| 39 | III | Core Practical | Practical- 7 | 4 | 3 | Open Source Software Lab | UPCA 66 | 40 | 60 | 100 |
| 40 | III | Core Practical | Practical- 8 | 4 | 3 | Multimedia Lab | UPCA 67 | 40 | 60 | 100 |
| 42 | III | Elective | Paper-2 | 3 | 3 | Data Communication Networks | UECA 63A | 25 | 75 | 100 |
| 43 | III | Elective | Paper-2 | 3 | 3 | Software Project Management | UECA 64C | 25 | 75 | 100 |
| 44 | IV | Skill based Subject | Paper-4 | 3 | 3 | Internet and its applications | USCA 64C | 15 | 60 | 75 |
| 45 | V | Extension Activities | | 0 | 1 | Extension Activities | UEA 60 | 50 | - | 50 |
| | | | Total | 30 | 27 | | | 245 | 245 | 725 |

| Part | Subject | Papers | Credit | Total credits | Marks | Total Marks |
|----------|------------------------|-----------|--------|---------------|-------|-------------|
| Part I | Languages | 2 | 4 | 8 | 100 | 200 |
| Part II | English | 2 | 4 | 8 | 100 | 200 |
| Part III | Allied (Odd Semester) | 2 | 4 | 8 | 100 | 200 |
| | Allied (Even Semester) | 2 | 6 | 12 | 100 | 200 |
| | Electives | 3 | 3 | 9 | 100 | 300 |
| | Core | 12 | (3-7) | 49 | 100 | 1200 |
| | Core Practical | 8 | (2-5) | 24 | 100 | 800 |
| Part IV | Environmental Science | 1 | 2 | 2 | 50 | 50 |
| | Soft Skill | 1 | 1 | 1 | 50 | 50 |
| | Value Education | 1 | 2 | 2 | 50 | 50 |
| | Lang. & Others/NME | 2 | 2 | 4 | 50 | 100 |
| | Skill Based | 4 | 3 | 12 | 75 | 300 |
| Part V | Extension | 1 | 1 | 1 | 50 | 50 |
| | Total | 40 | | 140 | | 3700 |