

UNIVERSITY OF MADRAS
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)

Semester - I : (ODD)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|--------------------------|--------------|---|--------|------------|------------|----|-----|
| | | | | | | | |
| Part – II | CLZ1K | English – I | 4 | 3 | 25 | 75 | 100 |
| Part – III (Gore) | SAU1A | Fundamentals of Digital Computer | 4 | 3 | 25 | 75 | 100 |
| | SAZ11 | Practical – I : PC Software | 3 | 3 | 40 | 60 | 100 |
| (Allied) | SBAMM | Mathematics – I | 4 | 3 | 25 | 75 | 100 |
| Part – IV (Softskill) | TSSEP | Effective Presentation Skill for the Physically Challenged (DEAF) | 3 | 2 | 50 | 50 | 100 |

Semester - II : (EVEN)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|--------------------------|--------------|--|--------|------------|------------|----|-----|
| | | | | | | | |
| Part – II | CLZ2K | English – II | 4 | 3 | 25 | 75 | 100 |
| Part – III (Gore) | SAE1A | Programming in C | 4 | 3 | 25 | 75 | 100 |
| | SAE11 | Practical – II : Programming in C LAB | 3 | 3 | 40 | 60 | 100 |
| (Allied) | SBAMN | Mathematics – II | 4 | 3 | 25 | 75 | 100 |
| Part – IV (Softskill) | TSSER | Skills in Communication for the Physically Challenged (DEAF) | 3 | 2 | 50 | 50 | 100 |

Semester - III : (ODD)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|--------------------------|--------------|--|--------|------------|------------|----|-----|
| | | | | | | | |
| Part – III (Gore) | SAZ3A | Paper – V : Programming in C++ and Data Structures | 4 | 3 | 25 | 75 | 100 |
| | SAZ3B | Paper – VI : Microprocessors and its applications | 4 | 3 | 25 | 75 | 100 |
| | SAZ3C | Paper – VII : Numerical and Statistical Methods | 4 | 3 | 25 | 75 | 100 |
| | SAZ31 | Paper – VIII : Practical – III : Programming in C++ using Data Structures | 3 | 3 | 40 | 60 | 100 |
| Part – III (Allied) | SBZ3C | Paper – III : Financial Accounting | 4 | 3 | 25 | 75 | 100 |
| Part – IV (Softskill) | TSSEW | Personality Enrichment | 3 | 2 | 50 | 50 | 100 |

Semester – IV : (EVEN)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|-----------------------------------|--------------|---|--------|------------|------------|----|-----|
| | | | | | | | |
| Part – III (<i>Gore</i>) | SAZ4A | Paper – IX : Programming in JAVA | 4 | 3 | 25 | 75 | 100 |
| | SAZ4B | Paper – X : Operating Systems | 4 | 3 | 25 | 75 | 100 |
| | SAZ4C | Paper – XI : Computer Graphics | 4 | 3 | 25 | 75 | 100 |
| | SAZ41 | Paper – XII : Practical – IV : Programming in JAVA LAB | 3 | 3 | 40 | 60 | 100 |
| Part – III (<i>Allied</i>) | SBZ4A | Paper – IV : Cost and Management Accounting | 4 | 3 | 25 | 75 | 100 |
| Part – IV | ENV4B | Environmental Studies | 4 | 3 | 25 | 75 | 100 |
| Part – IV (<i>Softskill</i>) | TSSEE | Technical Writing and Presentation Skills | 3 | 2 | 50 | 50 | 100 |

Semester – V : (ODD)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|-------------------------------|--------------|--|--------|------------|------------|----|-----|
| | | | | | | | |
| Part – III (<i>Gore</i>) | SAZ5A | Paper – XIII : Database Management Systems | 4 | 3 | 25 | 75 | 100 |
| | SAZ5B | Paper – XIV : Software Engineering | 4 | 3 | 25 | 75 | 100 |
| | SAZ5C | Paper – XV : Resource Management Techniques | 4 | 3 | 25 | 75 | 100 |
| | SAZ51 | Paper – XVI : Practical – V : RDBMS LAB | 3 | 3 | 40 | 60 | 100 |
| (<i>Elective</i>) | SEZ5A | Elective I : Visual Programming | 4 | 3 | 25 | 75 | 100 |
| Part – IV | VAE5Q | Value Education | 1 | 3 | 25 | 75 | 100 |

Semester – VI : (EVEN)

| Paper | Subject Code | Subject | Credit | Exam Hours | Max. Marks | | |
|-----------------------------|---------------------|---|---------------|-------------------|-------------------|----|-----|
| Part – III <i>(Core)</i> | SAZ6A | Paper – XVII : Web Technology | 4 | 3 | 25 | 75 | 100 |
| | SAZ6B | Paper – XVIII : Data Communication & Networking | 4 | 3 | 25 | 75 | 100 |
| | SAZ6C | Paper – XIX : Software Testing | 4 | 3 | 25 | 75 | 100 |
| | SAZ61 | Paper – XX : Practical – VI : Web Application Lab | 3 | 3 | 40 | 60 | 100 |
| <i>(Elective)</i> | SEZ6B | Elective II : E - Commerce | 4 | 3 | 25 | 75 | 100 |
| | SEZ6G | Elective III : Distributed Computing | 4 | 3 | 25 | 75 | 100 |
| Part – IV | CES6Q | Extension Activities | 1 | - | | | |