**BHARATHIAR UNIVERSITY:: COIMBATORE.**

**M.Sc. SOFTWARE SYSTEM**

***(*Affiliated Colleges *- Effective For the candidates admitted during the academic year 2025 – 2026 and onwards)***

**REVISED SCHEME OF EXAMINATIONS – CBCS PATTERN**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Code** | **Title of the Course** | **Credits** | **Hours** | **Maximum Marks** |
|  | **Theory** | **Practical** | **CIA** |  **ESE** | **Total****Marks** |
| **FIRST SEMESTER** |
|  | Paper I English | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Algebra and Calculus | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Introduction to Information Technology | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper IV Digital Fundamentals and Computer Architecture | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper V Programming in C | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical I C Programming Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical II Office Automation Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total** | 26 | 22 | 8 |  |  |  |
| **SECOND SEMESTER** |
|  | Paper I Numerical Methods | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Microprocessors and Assembly LanguageProgramming | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Accounting and Financial  Management | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper IV Data Structures | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper V System Software | 4 | 4 |  | 25 | 75 | 100 |
|  | Practical I Assembly Language Programming Lab | 3 |  | 4 |  40 | 60 | 100 |
|  | Practical II Data Structures Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total** | 26 | 22 | 8 |  |  |  |
| **THIRD SEMESTER** |
|  | Paper I Discrete Structures | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Operating Systems | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Multimedia | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper IV Object Oriented Programming and C++ | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper V COBOLandBusiness Data Processing | 3 | 4 |  | 25 | 75 | 100 |
|  | Paper VI Health and Wellness | 1 | 1 |  | 100$ | - | 100 |
|  | Practical I Object Oriented Programming Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical II COBOL Programming Lab | 3 |  | 4 |  40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
| **FOURTH SEMESTER** |
|  | Paper I Operations Research | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Computer Graphics | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Relational Data Base ManagementSystem | 4 |  4 |  |  25 | 75 | 100 |
|  | Paper IV Computer Networks | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper V Structured System Analysis and Design | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical I Graphicsand MultimediaLab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical II RDBMS Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
| **FIFTH SEMESTER** |
|  | Paper I Web Designing | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Client Server Computing | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Software Engineering | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIV Visual Programming | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper VPrinciples of CompilerDesign | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical I Web Designing Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical II Visual Programming Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
| **SIXTH SEMESTER** |
|  | Paper I Java Programming | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper II Python Programming | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper III Elective-I | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper IV Mobile Computing | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper V Object Oriented Analysis and Design | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical I JavaProgramming Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical II Python Programming Lab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
| **SEVENTH SEMESTER** |
|  | Project Work and VivaVoce–I | 13 |  |  | 50 |  150\* | 200 |
|  | **Total**  | 13 |  |  |  |  |  |
| **EIGHTH SEMESTER** |
|  | PaperIData Mining andWarehousing | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIIAdvancedJavaProgramming | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIII Elective –II | 4 | 4 |  | 25 | 75 | 100 |
|  | Paper IV Artificial Intelligence and Expert Systems | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper VInformationSecurity | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical IData Mining usingR | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical IIAdvanced Java ProgrammingLab | 3 |  | 4 | 40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
|  |  **NINETH SEMESTER** |
|  | PaperIPrinciples of Management andMarketing | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIIPHP Programming | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIII SoftwareTesting | 4 | 4 |  | 25 | 75 | 100 |
|  | PaperIV Elective –III | 4 | 5 |  | 25 | 75 | 100 |
|  | Paper VElective –IV | 4 | 5 |  | 25 | 75 | 100 |
|  | Practical IPHP ProgrammingLab | 3 |  | 4 | 40 | 60 | 100 |
|  | Practical IISoftwareTesting Lab | 3 |  | 4 |  40 | 60 | 100 |
|  | **Total**  | 26 | 22 | 8 |  |  |  |
| **TENTH SEMESTER** |
|  | Project Work and VivaVoce-II | 13 |  |  | 50 |  150\* | 200 |
|  | **Total**  | 13 |  |  |  |  |  |
|  | **Grand Total** | 234 |  |  |  |  | 6100 |
|  |  |  |  |  |  |  |  |

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| **ONLINE COURSES** |
| 1. | **#SWAYAM / MOOC**  | 2 |  |  |  |  |  |
| 2. | **#Job oriented Certificate course** | 2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

 \* Project Evaluation –100 marks, Viva-voce– 50 marks in ESE

 # During II / III /IV/V/VI/VII/VIII / IX Semester (Optional).

 $ Split for CIA 100 Marks

|  |  |  |
| --- | --- | --- |
| **PART** | **DESCRIPTION** | **MARKS** |
| A | Report | 40 |
| B | Attendance | 20 |
| C | Activities (Observation During Practice) | 40 |
|  | TOTAL | 100 |