**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 Language  Programming | 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 |