**BHARATHIAR UNIVERSITY::COIMBATORE 641046**

**B. Sc. Software System (CBCS PATTERN)**

(*For the students admitted from the academic year****2022-2025*** *Batch*)

**Scheme of Examination**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part** | **Title of the Course** | **Hours/Week** | **Examination** | **Credits** |
| **Duration****In Hours** | **Maximum Marks** |
| **CIA** | **CEE** | **Total** |
|  | **Semester I** |
| I | Language-I | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English-I | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core1:Computing Fundamentals and C Programming | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core 2: Digital Fundamentals and Computer Architecture | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab1:ProgrammingLab-C | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Allied1:Mathematical Structures for Computer Science | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | Environmental Studies\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **300** | **350** | **650** | **26** |
|  | **Semester II** |
| I | Language–II | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English–II**&** | 4 | 3 | 25 | 25 | 50 | 2 |
|  | Naan Muthalvan –Skill CourseEffectiveEnglish<http://kb.naanmudhalvan.in/images/c/c7/Cambridge_Course_Details.pdf> | 2 |  | 25 | 25 | 50 | 2 |
| III | Core3: C++ Programming | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab2:Programming Lab-C++ | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 3:Internet Basics | 2 | 3 | 25 | 25 | 50 | 2 |
| III | Allied 2:Discrete Mathematics | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | Value Education–Human Rights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | **600** | **24** |
|  | **Semester III** |
| I | Language–III | 4 | 3 | 50 | 50 | 100 | 4 |
| II | English – III **&** | 4 | 3 | 25 | 25 | 50 | 2 |
| III | Core4:Data Structures | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core5:Java Programming | 4 | 3 | 50 | 50 | 100 | 3 |
| III | CoreLab4:Programming Lab–Java | 3 | 3 | 25 | 25 | 50 | 2 |
| III | Allied3:Computer Based Optimization Technique **&** | 5 | 3 |  25 | 25 |  50 | 2 |
| III | Skill based Subject1:WAP&XML | 4 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/Advanced Tamil\*(OR)Non major elective-I(Yoga for Human Excellence)\*/Women’s Rights\* | 2 | 3 | - | 50 | 50 | 2 |
| IV | Naan Muthalvan –Skill Course - Programming Essentials for Employability | 2 |  | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **280** | **395** | **675** | **24** |
|  | **Semester IV** |
| I | Language–IV | 4 | 3 | 50 | 50 | 100 | 4 |
| II | English – IV **&** | 4 | 3 | 25 | 25 | 50 | 2 |
| III | Core6:System Software and Operating System | 4 | 3 | 50 | 50 | 100 | 3 |
| III | Core7:Linux and Shell Programming | 4 | 3 | 50 | 50 | 100 | 3 |
| III | Core Lab5:Linux and Shell Programming Lab | 3 | 3 | 25 | 25 | 50 | 2 |
|  | Naan Muthalvan–Skill Course Office Fundamentals-Lab[http://kb.naanmudhalvan.in/Bharathiar\_University\_(BU)](http://kb.naanmudhalvan.in/Bharathiar_University_%28BU%29) | 2 |  | 25 | 25 | 50 | 2 |

**B.Sc.SoftwareSystem2021-22onwards - AffiliatedColleges- Annexure**

**SCAA DATED:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| III | Allied4:Business Accounting | 4 | 3 | 25 | 25 | 50 | 2 |
| III | Skill based subject 2 Lab: XML Lab | 3 | 3 | 25 | 25 | 50 | 2 |
| IV | Tamil\*\*/Advanced Tamil\*(OR)Non-major elective-II (General Awareness\*) | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | **600** | **22** |
|  |
|  | **Semester V** |
| III | Core8:RDBMS & Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core9:Visual Basic | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 6:Programming Lab–VB & Oracle | 6 | 3 | 25 | 25 | 50 | 4 |
| III | Elective – I: E-Commerce / Design and analysis of Algorithms Web Technology | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 3:ASP.NET | 6 | 3 | 30 | 45 | 75 | 4 |
| IV | Naan Muthalvan – Skill Course – Cloud and IT Essentials for Employability | 2 |  | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **230** | **295** | **525** | **21** |
|  | **Semester VI** |
| III | Core10:Graphics & Multimedia | 5 | 3 | 50 | 50 | 100 | 4 |
| III |  Core11:Project Work Lab%% | 5 | - | 60 | 90 | 150 | 6 |
| III | Core Lab7:Programming Lab–Graphics & Multimedia | 5 | 3 | 25 | 25 | 50 | 3 |
| III | Elective–II: Computer Networks/Software Quality Assurance /Management Information Systems | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective – III: Wireless Mobile Communications/Component Technologies/ Mastering LAN & Troubleshooting | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Skill Based Subject 4:ASP.NET Lab | 3 | 3 | 25 | 25 | 50 | 2 |
|  | Naan Muthalvan-Skill Course Cyber Security**@**<http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf>(or)Machine Learning**#** <http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf>(or)Android APP Development**$**<http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf> | 2 |  | 25 | 25 | 50 | 2 |
| V | Extension Activities\*\* | - | - | 50 | - | 50 | 2 |
|  | **Total** | **30** |  | **335** | **315** | **650** | **27** |
|  | **Grand Total** |  **184** |  | **1695** | **2005** | **3700** |  **144** |

* \*No Continuous Internal Assessment (CIA).Only University Examinations.
* \*\*No University Examinations. Only Continuous Internal Assessment(CIA)
* **&**University semester examination (CEE) will be conducted for 50marks (As per existing pattern of Examination) and it will be converted for 25 marks.
* **#** Govt – Non-Autonomous Colleges, **$** Aided – Non-Autonomous Colleges, **@** Self - Financing Colleges **(**Non –Autonomous).
* Naan Mudhalvan–skill courses-external marks will be assessed by Industry and internal will be offered by respective course teacher