**BHARATHIAR UNIVERSITY: COIMBATORE641046**

**BCA (CBCS PATTERN)**

(*For the students admitted from the academic year****2022-2023*** *and onwards*)

**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 CProgramming | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core2:Digital Fundamentals and ComputerArchitecture | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab1: Programming Lab- C | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Allied1:Mathematical Structures for ComputerScience | 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 |
| III | Core3:C++Programming | 5 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab2:Programming Lab-C++ | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab3:Internet Basics | 2 | 3 | 25 | 25 | 50 | 2 |
| III | Allied2:Discrete Mathematics | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | Value Education– Human Rights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | Naan Muthalvan –Skill Course  Effective English <http://kb.naanmudhalvan.in/images/c/c7/Cambridge_Course_Details.pdf> | 2 | 3 | 25 | 25 | 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:DataStructures | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core5:JavaProgramming | 4 | 3 | 50 | 50 | 100 | 3 |
| III | CoreLab4:ProgrammingLab -Java | 3 | 3 | 25 | 25 |  50 | 2 |
| III | Allied3:ComputerBasedOptimization Techniques | 5 | 3 | 25 | 25 |  50 | 2 |
| III | SkillbasedSubject1:WebProgramming | 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 |
|  | Naan Muthalvan –Skill Course - programming essential for employability | 2 | 3 | 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:LinuxandShellProgramming | 4 | 3 | 50 | 50 | 100 | 3 |
| III | Core Lab 5:Linux and Shell Programming Lab | 3 | 3 | 25 | 25 |  50 | 2 |
| III | Allied4:Business Accounting | 4 | 3 | 25 | 25 |  50 | 2 |
| III | Skill based Subject 2Lab:WebProgramming–Lab | 3 | 3 | 25 | 25 | 50 | 2 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non-major elective-II(General Awareness\*) | 2 | 3 | - | 50 |  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 | 3 | 25 | 25 |  50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | **600** | **22** |
|  | **Semester V** |
| III | Core8: RDBMS &Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core9:VisualBasic | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab6: Programming Lab–VB &Oracle | 6 | 3 | 25 | 25 | 50 | 4 |
| III | Elective–I:IntroductiontoCompilerDesign/PHP &Scripting Language/PYTHON Programming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 3: CASE Tools Concepts and Applications | 6 | 3 | 30 | 45 | 75 | 3 |
|  | Naan Muthalvan –Skill Course –Cloud and IT essential for employability | 2 | 3 | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **230** | **295** | **525** | **21** |
|  | **Semester VI** |
| III | Core10:Graphics& Multimedia | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core11:Project Work Lab%% | 6 | - | 60 | 90 | 150 | 6 |
| III | Core7: Programming Lab –Graphics &Multimedia | 3 | 3 | 25 | 25 | 50 | 3 |
| III | ElectiveII:ComputerNetworks/DotNetprogramming/Distributed Computing | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–III: Internet of Things(IoT)/Web Services/Software Testing | 5 | 3 | 50 | 50 | 100 | 4 |
| III | SkillBasedSubject4: CASE Tools Lab | 3 | 3 | 25 | 25 | 50 | 2 |
| V | Extension Activities\*\* | - | - | 50 | - | 50 | 2 |
|  | Naan Muthalvan – Skill Course Cyber Security**@**<http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf>(or)MachineLearning**#**<http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf>(or)Android APP Development**$**[http://kb.naanmudhalvan.in/images/0/08/AndroidApp\_Dev.pdf](http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf) | 2 | 3 | 25 | 25 | 50 | 2 |
|  | **Total** | **30** |  | **335** | **315** | **650** | **27** |
|  | **Grand Total** |  |  | **1695** | **2005** | **3700** | **144** |