**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 C  Programming | | | 4 | 3 | | 50 | | 50 | 100 | 4 |
| III | Core2:Digital Fundamentals and Computer  Architecture | | | 4 | 3 | | 50 | | 50 | 100 | 4 |
| III | CoreLab1: Programming Lab- 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 |
| 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:ComputerBased  Optimization 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** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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)> | 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** | |