**BHARATHIARUNIVERSITY::COIMBATORE641046**

Page 4 of 87

**B.Sc.ComputerScience(CBCSPATTERN)**

(*Forthestudentsadmittedfromtheacademicyear****2021-2022****andonwards*)

**SchemeofExamination**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part** | **TitleoftheCourse** | **Hours/ Week** | **Examination** | **Credits** |
| **Duration****inHours** | **MaximumMarks** |
| **CIA** | **CEE** | **Total** |
|  | **SemesterI** |
| I | Language-I | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English-I | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core1:ComputingFundamentalsandC Programming | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core2:DigitalFundamentalsandComputer Architecture | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab1: ProgrammingLab-C | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Allied1:Mathematical StructuresforComputer Science | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | EnvironmentalStudies\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **300** | **350** | **650** | **26** |
|  | **SemesterII** |
| I | Language–II | 6 | 3 | 50 | 50 | 100 | 4 |
| II | English–II | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core3:C++Programming | 5 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab2: ProgrammingLab-C++ | 4 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab3:Internet Basics | 2 | 3 | 25 | 25 | 50 | 2 |
| III | Allied2:DiscreteMathematics | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | ValueEducation– HumanRights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | **600** | **24** |
|  | **SemesterIII** |
| III | Core4:DataStructures | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core5:JavaProgramming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab4:Programming Lab –Java | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Allied3:ComputerBasedOptimizationTechniques | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject1:SoftwareEngineeringandSoftwareProjectManagement | 5 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/ AdvancedTamil\*(OR)Non- majorelective-I(Yoga forHuman Excellence)\*/ Women’s Rights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **230** | **295** | **525** | **21** |
|  | **SemesterIV** |
| III | Core6: SystemSoftwareand OperatingSystem | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core7:LinuxandShellProgramming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab 5:Linux and ShellProgrammingLab | 3 | 3 | 25 | 25 | 50 | 2 |
|  | NaanMuthalvan – Skill Course Office Fundamentals - Lab[http://kb.naanmudhalvan.in/Bharathiar\_U](http://kb.naanmudhalvan.in/Bharathiar_University_%28BU%29) [niversity\_(BU)](http://kb.naanmudhalvan.in/Bharathiar_University_%28BU%29) | 3 |  | 25 | 25 | 50 | 2 |
| III | Allied4:BusinessAccounting | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject 2Lab:SoftwareProjectManagement-Lab | 4 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non-majorelective-II(GeneralAwareness\*) | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **230** | **295** | **525** | **21** |
|  |

|  |  |
| --- | --- |
|  | **SemesterV** |
| III | Core8:RDBMS&Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core9:VisualBasic | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core6:ProgrammingLab–VB&Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Elective - I PYTHON Programming/ComputerNetworks/Organi zational Behavior | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject 3: SoftwareTesting | 6 | 3 | 30 | 45 | 75 | 3 |
| IV | Naan Muthalvan – Skill Course – Cloud and IT Essentials for Employability | 2 |  | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **255** | **320** | **575** | **21** |
|  | **Semester VI** |
| III | Core10:Graphics&Multimedia | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core11:Project WorkLab%% | 5 | 3 | 60 | 90 | 150 | 6 |
| III | CoreLab7: Programming Lab–Graphics &Multimedia | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–II:NetworkSecurityandCryptography / Artificial Intelligence andExpert Systems / WebTechnology | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–III:Data Mining/Open Source Software/ Internet ofThings (IoT) | 5 | 3 | 50 | 50 | 100 | 4 |
| III | SkillBasedSubject4(Lab): SoftwareTestingLab | 3 | 3 | 30 | 45 | 75 | 3 |
|  | Naan Muthalvan – Skill Course Cyber Security **@**[http://kb.naanmudhalvan.in/images/7/71/Cyb](http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf) [ersecurity.pdf](http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf)(or) Machine Learning **#** [http://kb.naanmudhalvan.in/images/1/19/PB](http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf) [L\_Google.pdf](http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf)(or) Android APP Development **$**[http://kb.naanmudhalvan.in/images/0/08/Android](http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf)[\_App\_Dev.pdf](http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf) | 2 |  | 25 | 25 | 50 | 2 |
| V | ExtensionActivities\*\* |  | - | 50 | - | 50 | 2 |
|  | **Total** | **30** |  | **365** | **360** | **725** | **29** |
|  | **Grand Total** |  **182** |  | **1655** | **1945** | **3600** |  **142** |

* \*NoContinuousInternalAssessment(CIA),UniversityExaminationsOnly.
* \*\*NoUniversityExaminations,ContinuousInternalAssessment(CIA)Only.
* **#** Govt – Non-Autonomous Colleges, **$** Aided – Non-Autonomous Colleges, **@** Self - Financing **(**Non – Autonomous).
* NaanMudhalvan – skill courses- external marks will be assessed by Industry and internal will be offered by respective course teacher.