# BHARATHIARUNIVERSITY::COIMBATORE641046

**B.C.A.(CBCSPATTERN)**

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

# Scheme of Examination

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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:MathematicalStructuresforComputer Science | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | Environmental Studies\* | 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:InternetBasics | 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:ProgrammingLab-Java | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Allied3:ComputerBased OptimizationTechniques | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject1:WebProgramming | 5 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/AdvancedTamil\*(OR)Non- major elective - I (Yoga for HumanExcellence)\*/Women’sRights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **230** | **295** | **525** | **21** |
|  | **SemesterIV** |
| III | Core6:SystemSoftwareandOperatingSystem | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core7:LinuxandShellProgramming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | CoreLab5:LinuxandShellProgrammingLab | 4 | 3 | 25 | 25 | 50 | 2 |
| III | Allied4:BusinessAccounting | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject2Lab:WebProgramming– Lab | 4 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non- majorelective-II(GeneralAwareness\*) | 2 | 3 | - | 50 | 50 | 2 |
|  | NaanMuthalvan–SkillCourse Office Fundamentals - Lab<http://kb.naanmudhalvan.in/Bharathiar_> University | 2 |  | 25 | 25 | 50 | 2 |

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|  | \_(BU) |  |  |  |  |  |  |
|  | **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 | CoreLab6:ProgrammingLab – VB & Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–I:IntroductiontoCompilerDesign/PHP&ScriptingLanguage/ PYTHON Programming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject3:CASETools Concepts and Applications | 6 | 3 | 30 | 45 | 75 | 3 |
|  | Naan Mudhalvan Skill Course – cloud and IT Essential for Employability  | 2 | 3 | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **255** | **320** | **575** | **21** |
|  | **SemesterVI** |
| III | Core10:Graphics&Multimedia | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core11: ProjectWorkLab%% | 6 | - | 60 | 90 | 150 | 6 |
| III | Core7:ProgrammingLab –Graphics&Multimedia | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–II:ComputerNetworks/DotNet programming /Distributed Computing | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–III:InternetofThings(IoT)/ Web Services / Software Testing | 5 | 3 | 50 | 50 | 100 | 4 |
| III | SkillBasedSubject4: CASETools Lab | 3 | 3 | 30 | 45 | 75 | 3 |
| V | ExtensionActivities\*\* | - | - | 50 | - | 50 | 2 |
|  | NaanMuthalvan-SkillCourse Cyber Security **@**<http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf>(or)MachineLearning **#**[http://kb.naanmudhalvan.in/images/1/19](http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf)[/PBL\_Google.pdf](http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf)(or)AndroidAPPDevelopment**$**<http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf> | 2 | 3 | 25 | 25 | 50 | 2 |
|  | **Total** | **30** |  | **365** | **360** | **725** | **29** |
|  | **GrandTotal** |  |  | **1655** | **1945** | **3600** | **142** |

* \*NoContinuousInternalAssessment(CIA).OnlyUniversityExaminations.
* \*\*NoUniversityExaminations.OnlyContinuousInternalAssessment(CIA).
* **#**Govt–Non-AutonomousColleges,**$**Aided–Non-AutonomousColleges,**@**Self-Financing**(**Non– Autonomous).
* NaanMudhalvan–skillcourses-external25markswillbeassessedbyIndustry and internal will be offered by respective course teacher.