**BHARATHIARUNIVERSITY::COIMBATORE641046**

**B.Sc.ComputerScienceandApplications (CBCSPATTERN)**

(*Forthestudentsadmittedfromtheacademicyear****2022-2023****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: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 | 4 | 3 | 25 | 25 | 50 | | 2 |
| 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 |
|  | NaanMuthalvan - 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** |
|  | **SemesterIII** | | | | | | | |
| I | Language–III | 4 | 3 | 50 | 50 | 100 | | 4 |
| II | English–III | 4 | 3 | 50 | 50 | 100 | | 4 |
| III | Core4:DataStructures | 4 | 3 | 50 | 50 | 100 | | 3 |
| III | Core5:JavaProgramming | 4 | 3 | 50 | 50 | 100 | | 3 |
| III | CoreLab4:ProgrammingLab–JAVA | 4 | 3 | 25 | 25 | 50 | | 2 |
| III | Allied3:ManagementInformationSystems | 4 | 3 | 25 | 25 | 50 | | 2 |
| III | SkillbasedSubject1:InternetProgramming | 4 | 3 | 30 | 45 | 75 | | 3 |
| IV | Tamil\*\*/ AdvancedTamil\*(OR) Non-  majorelective-I(YogaforHumanExcellence)\*/ Women’s Rights\* | 2 | 3 | - | 50 | 50 | | 2 |
|  | Naan mudhalvan skill course-programming essential for employability | 2 | 3 | 25 | 75 | 100 | | 2 |
|  | **Total** | **32** |  | **305** | **420** | **725** | | **25** |
|  | **SemesterIV** | | | | | | | |
| I | Language–**IV** | 4 | 3 | 50 | 50 | | 100 | 4 |
| II | English–**IV** | 4 | 3 | 25 | 25 | | 50 | 2 |
| III | Core6:SystemSoftwareandOperatingSystem | 4 | 3 | 50 | 50 | | 100 | 3 |
| III | Core7:LinuxandShellProgramming | 4 | 3 | 50 | 50 | | 100 | 3 |
| III | CoreLab5:LinuxandShellProgrammingLab | 3 | 3 | 25 | 25 | | 50 | 2 |
| III | Allied4:OrganizationalBehavior | 4 | 3 | 25 | 25 | | 50 | 2 |
| III | SkillbasedSubject2Lab:PHPProgramming-  Lab | 3 | 3 | 25 | 25 | | 50 | 2 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non-majorelective-II(GeneralAwareness\*) | 2 | 3 | - | 50 | | 50 | 2 |
|  | NaanMuthalvan – Skill Course  Office Fundamentals - Lab  http://kb.naanmudhalvan.in/Bharathiar\_University\_(BU) | 2 | 3 | 25 | 25 | | 50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | | **600** | **22** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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 | 25 | 25 | 50 | 4 |
| III | Elective – I: Client Server Computing /E-Commerce/ Software Engineering | 6 | 3 | 50 | 50 | 100 | 4 |
| III | SkillbasedSubject3:Webdesigningwith  ASPand ASP .NET | 6 | 3 | 30 | 45 | 75 | 3 |
|  | Naan mudhalvan | 2 | 3 | 25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **230** | **295** | **525** | **21** |
|  | **SemesterVI** | | | | | | |
| III | Core10:Graphics&Multimedia | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core11:ProjectWorkLab%% | 6 | - | 40 | 60 | 100 | 4 |
| III | CoreLab7: ProgrammingLab  –Graphics &Multimedia | 3 | 3 | 25 | 25 | 50 | 3 |
| III | Elective–II:NetworkSecurity&  Cryptography/DistributedComputing/Computer Networks | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective–III:Mobile Computing/Web  Technology/SoftwareTesting | 5 | 3 | 50 | 50 | 100 | 4 |
| III | SkillBasedSubject4(Lab):ASPLab | 3 | 3 | 25 | 25 | 50 | 3 |
| V | ExtensionActivities\*\* | - | - | 50 | - | 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 | 2 | 25 | 25 | 50 | 2 |
|  | **Total** | **30** |  | **315** | **285** | **600** | **26** |
|  | **GrandTotal** |  |  | **1700** | **2000** | **3700** | **144** |

* \*NoContinuousInternalAssessment(CIA).OnlyUniversityExaminations.
* \*\*NoUniversityExaminations. OnlyContinuousInternalAssessment(CIA).
* **#**Govt – Non-Autonomous Colleges, **$** Aided – Non-Autonomous Colleges, **@** Self - Financing **(**Non – Autonomous).
* **&**The English II- University semester examination will be conducted for 50 marks

(As per existing pattern of Examination) and it will be converted for 25 marks.

* NaanMudhalvan – skill courses- external 25 marks will be assessed by Industry

and internal will be offered by respective course teacher.