**BHARATHIAR UNIVERSITY::COIMBATORE 641 046**

**B. Sc. Information Technology (CBCS PATTERN)**

(*For the students admitted from the academic year* ***2021-2022*** *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 | Core Paper I Computing Fundamentals and C Programming | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper II Digital Fundamentals and Computer Architecture | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Practical – I Programming Lab - C | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Allied A: Paper I 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 | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper 3: C++ Programming | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 2: Programming Lab - C++ | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 3: Internet Basics | 2 | 3 | 25 | 25 | 50 | 2 |
| III | Allied A: Paper II Discrete Mathematics | 5 | 3 | 50 | 50 | 100 | 4 |
| IV | Value Education – Human Rights\* | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **275** | **325** | **600** | **24** |
|  | **Semester III** |
| III | Core Paper 4: Data Structures | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper 5: Java Programming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 4: Programming Lab - Java | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Allied B: Paper I Microprocessor & ALP | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject1: Introduction to web design & Applications | 5 | 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 |
|  | **Total** | **30** |  | **230** | **295** | **525** | **21** |
|  | **Semester IV** |
| III | Core Paper 6: System Software and Operating System | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper 7: Linux and ShellProgramming | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab – 5: Linux and Shell Programming Lab | 4 | 3 | 25 | 25 | 50 | 2 |
|  | Naan Mudhalvan CoursesOffice Fundamentals - Lab\*\*\*[http://kb.naanmudhalvan.in/Bharathiar\_University\_(BU)](http://kb.naanmudhalvan.in/Bharathiar_University_%28BU%29) |  2 | 3 | 25 | 25 | 50 | 2 |
| III | Allied 4: Business Accounting | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 2 Lab: HTML, XML and JavaScript- Lab | 4 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non- major elective -II (General Awareness\*) | 2 | 3 | - | 50 | 50 | 2 |
|  | **Total** | **30** |  | **230** | **295** | **525** | **21** |
|  | **Semester V** |
| III | Core Paper 8: RDBMS and Oracle | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Paper 9: Visual Basic | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 6: Programming Lab* : VB and Oracle
 | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Elective - I Soft Computing/ Animation Techniques / Business Intelligence | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 3: Dot Net Programming | 6 | 3 | 30 | 45 | 75 | 3 |
| IV | Naan Muthalvan – Skill Course – Cloud and IT Essentials for Employability | 2 | 3 |  25 | 75 | 100 | 2 |
|  | **Total** | **32** |  | **255** | **320** | **575** | **21** |
|  | **Semester VI** |
| III | Core 10: Graphics & Multimdia | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core 11: Project Work Lab %% | 6 | - | 60 | 90 | 150 | 6 |
|  | Naan Mudhalvan–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 | 3 | 25 |  25 | 50 | 2 |
| III | Core Lab 7: Programming Lab– Graphics & Multimedia  | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Elective – II: Network Security and Administration/ Mobile Computing / Python Programming | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective III Internet of Things (IoT)/ Component Technology/ E-Commerce | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Skill Based Subject 4 (Lab) : Dot Net Lab | 3 | 3 | 30 | 45 | 75 | 3 |
| V | Extension Activities\*\* | - | - | 50 | - | 50 | 2 |
|  | **Total** | **30** |  | **365** | **360** | **725** | **29** |
|  | **Grand Total** |  |  | **1655305** | **1945** | **3600** | **142** |

**Note:**

|  |  |
| --- | --- |
| \* | No Continuous Internal Assessment (CIA), University Examinations Only. |
| \*\* | No University Examinations, Continuous Internal Assessment (CIA) Only. |
| \*\*\* | Naan Mudhalvan – Skill courses- external 25 marks will be assessed by Industry and internal will be offered by respective course teacher. |
| **#** Govt – Non-Autonomous Colleges, **$** Aided – Non-Autonomous Colleges, **@** Self - Financing **(**Non – Autonomous) |