**BHARATHIAR UNIVERSITY::COIMBATORE 641 046**

**B. Sc. Information Technology (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 | 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 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 |
|  | Naan Mudhalvan Courses  Effective English &  <http://kb.naanmudhalvan.in/images/c/c7/Cambridge_Course_Details.pdf> | | 2 | | 3 | 25 | | | 25 | | 50 | | 2 |
| 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** | | | | | | | | | | | | |
| I | Language – III | | 4 | | 3 | 50 | | | 50 | | 100 | | 4 |
| II | English – III **&** | | 4 | | 3 | 25 | | | 25 | | 50 | | 2 |
| III | Core Paper 4: Data Structures | | 4 | | 3 | 50 | | | 50 | | 100 | | 4 |
| III | Core Paper 5: Java Programming | | 4 | | 3 | 50 | | | 50 | | 100 | | 3 |
| III | Core Lab 4: Programming Lab - Java | | 3 | | 3 | 25 | | | 25 | | 50 | | 2 |
| III | Allied B: Paper I Microprocessor & ALP | | 5 | | 3 | 25 50 | | | 25 | | 50 | | 2 |
| III | Skill based Subject1: Introduction to web design & Applications | | 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 |
| IV | Naan Muthalvan –Skill Course - Programming Essentials for Employability | | 2 | |  | 25 | | | 75 | | 100 | | 2 |
|  | **Total** | | **32** | |  | **280** | | | **395** | | **675** | | **24** |
|  | **Semester IV** | | | | | | | | | | | | |
| I | Language – IV | | 4 | | 3 | 50 | | | 50 | | 100 | | 4 |
| II | English – IV **&** | | 4 | | 3 | 25 | | | 25 | | 50 | | 2 |
| III | Core Paper 6: System Software and Operating System | | 4 | | 3 | 50 | | | 50 | | 100 | | 3 |
| III | Core Paper 7: Linux and Shell Programming | | 4 | | 3 | 50 | | | 50 | | 100 | | 3 |
| III | Core Lab – 5: Linux and Shell Programming Lab | | 3 | | 3 | 25 | | | 25 | | 50 | | 2 |
|  | Naan Mudhalvan Courses  Office Fundamentals - Lab\*\*\*  <http://kb.naanmudhalvan.in/Bharathiar_University_(BU)> | | 2 | | 3 | 25 | | | 25 | | 50 | | 2 |
| III | Allied 4: Business Accounting | | 4 | | 3 | 25 | | | 25 | | 50 | | 2 |
| III | Skill based Subject 2 Lab: HTML, XML and JavaScript- Lab | | 3 | | 3 | 25 | | | 25 | | 50 | | 2 |
| IV | Tamil\*\*/Advanced Tamil\* (OR) Non- major elective -II (General Awareness\*) | | 2 | | 3 | - | | | 50 | | 50 | | 2 |
|  | **Total** | | **30** | |  | **275** | | | **325** | | **600** | | **22** |
|  | **Semester V** | | | | | | | | | | | | |
| III | Core Paper 8: : RDBMS &Oracle | 6 | | 3 | | | 50 | 50 | | 100 | | 4 | |
| III | Core Paper 9: VisualBasic | 6 | | 3 | | | 50 | 50 | | 100 | | 4 | |
| III | Core Lab 6: Programming Lab   * : VB &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 | |  | | | 25 | 75 | | 100 | | 2 | |
|  | **Total** | **32** | |  | | | **230** | **295** | | **525** | | **21** | |
|  | **Semester VI** | | | | | | | | | | | | |
| III | Core 10: :Graphics& Multimedia | 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 | | | 25 | 25 | | 50 | | 3 | |
| 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 | | | 25 | 25 | | 50 | | 2 | |
| V | Extension Activities\*\* | - | | - | | | 50 | - | | 50 | | 2 | |
|  | **Total** | **30** | |  | | | **335** | **315** | | **650** | | **27** | |
|  | **Grand Total** |  | |  | | | **1695** | **2005** | | **3700** | | **144** | |

**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). | |
| **&** 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. | |