

BHARATHIAR UNIVERSITY :: COIMBATORE 641046

B. Sc. Hardware Systems and Networking (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 1: Computing Fundamentals and C Programming | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core 2: Computer Architecture | 4 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 1: Programming Lab – C | 3 | 3 | 50 | 50 | 100 | 4 |
| III | Allied 1: 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 | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core 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 2: 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 4: Data Structures | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core 5: Fundamentals of Microprocessor | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 4: PC Assembling Lab | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Allied 3: Computer Based Optimization Techniques | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 1 : : Software Project Management | 5 | 3 | 30 | 45 | 75 | 3 |
| IV | Tamil @/ Advanced Tamil (OR) Non-major elective-1 (Yoga for Human Excellence)* / Women’s Rights* | 2 | 3 | - | 50 | 50 | 2 |
| Total | | 30 | | 230 | 295 | 525 | 21 |
| Semester IV | | | | | | | |
| III | Core 6: System Software and Operating System | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core 7: Computer Storage Devices | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 5: Fundamentals of microprocessor Lab | 3 | 3 | 25 | 25 | 50 | 2 |
| | NaanMuthalvan Courses Office Fundamentals - Lab http://kb.naanmudhalvan.in/Bharathiar_University_(BU)*** | 3 | 3 | 25 | 25 | 50 | 2 |
| III | Allied 4: Embedded Systems | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based subject 2 (lab) : Software project Management 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 8: Network Security & Cryptography | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core 9: Software Testing | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 6: Computer Hardware Maintenance | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Elective-I Computer Networks | 6 | 3 | 50 | 50 | 100 | 4 |
| III | Skill based Subject 3: Server Administration | 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 | Core 10: Web Technology | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core 11: Mastering LAN & Troubleshooting | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Core Lab 7: Web Technology Lab | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Elective-II : Graphics & Multimedia | 5 | 3 | 50 | 50 | 100 | 4 |
| III | Industrial Project | 4 | - | 60 | 90 | 150 | 6 |
| | ***Naan Muthalvan Courses – Emerging Technology for Employability – II-Skill based 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 | - | 25 | 25 | 50 | 2 |
| III | Skill based Subject 4 (lab) : Server Administration Lab | 4 | 3 | 30 | 45 | 75 | 3 |
| V | Extension Activities** | - | - | 50 | - | 50 | 2 |
| | Total | 30 | | 380 | 345 | 725 | 29 |
| | Grand Total | | | 1670 | 1930 | 3600 | 142 |

Note:

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| * | No Continuous Internal Assessment (CIA), University Examinations Only. |
| ** | No University Examinations, Continuous Internal Assessment (CIA) Only. |
| *** | NaanMudhalvan – 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) | |