

**BHARATHIARUNIVERSITY::COIMBATORE641046**

**B.Sc. Hardware Systems and Networking (CBCSPATTERN)**

*(For the students admitted from the academic year 2023-2024 and onwards)*

**Scheme of Examination**

Part	Title of the Course	Hours/Week	Examination				Credits
			Duration in Hours	Maximum Marks			
				CIA	CEE	Total	
<b>Semester I</b>							
I	Language-I	4	3	25	75	100	4
II	English-I	4	3	25	75	100	4
III	Core1: Computing Fundamentals and C Programming	5	3	25	75	100	4
III	Core2: Computer Architecture	5	3	25	75	100	4
III	Core Lab1: Programming Lab –C	5	3	25	75	100	4
III	Allied1: Mathematical Structures for Computer Science	5	3	25	75	100	4
IV	Environmental Studies*	2	3	-	50	50	2
<b>Total</b>		<b>30</b>		<b>150</b>	<b>500</b>	<b>650</b>	<b>26</b>
<b>Semester II</b>							
I	Language –II	4	3	25	75	100	4
II	English –II	4	3	25	25	50	2
	NaanMudhalvan Courses Effective English <a href="http://kb.naanmudhalvan.in/images/c/c7/Cambri_dge_Course_Details.pdf">http://kb.naanmudhalvan.in/images/c/c7/Cambri_dge_Course_Details.pdf</a>	2		25	25	50	2
III	Core3: C++ Programming	5	3	25	75	100	4
III	Core Lab2: Programming Lab –C++	5	3	20	30	50	2
III	Core Lab3: Internet Basics	3	3	20	30	50	2
III	Allied2: Discrete Mathematics	5	3	25	75	100	4
IV	Value Education –Human Rights*	2	3	-	50	50	2
<b>Total</b>		<b>30</b>		<b>165</b>	<b>385</b>	<b>550</b>	<b>22</b>
<b>Semester III</b>							
I	Language – III	4	3	25	75	100	4
II	English –III	4	3	25	75	100	4
III	Core4: Data Structures	4	3	25	75	100	4
III	Core5: Fundamentals of Microprocessor	4	3	25	75	100	4
III	Core Lab4: PC Assembling Lab	3	3	20	30	50	2
III	Allied3: Computer Based Optimization Techniques	5	3	25	25	50	2
III	Skill based Subject 1: Software Engineering	4	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
<b>Total</b>		<b>30</b>		<b>175</b>	<b>450</b>	<b>625</b>	<b>25</b>
<b>Semester IV</b>							
I	Language – IV	4	3	25	75	100	4
II	English –IV &	4	3	25	25	50	2
III	Core6: System Software and Operating System	4	3	25	75	100	4
III	Core7: Computer Storage Devices	4	3	25	75	100	3

III	CoreLab5: Fundamentals of microprocessor Lab	3	3	20	30	50	2
	NaanMuthalvan Courses Office Fundamentals - Lab <a href="http://kb.naanmudhalvan.in/Bharathiar_University_(BU)***">http://kb.naanmudhalvan.in/Bharathiar_University_(BU)***</a>	2	-	25	25	50	2
III	Allied4: Embedded Systems	4	3	25	25	50	2
III	Skill based subject 2(lab): Software project Management Lab	3	3	25	25	50	2
IV	Tamil@/Advanced Tamil (OR) Non-major elective- II (General Awareness)#	2	3	-	50	50	2
	<b>Total</b>	<b>30</b>		<b>195</b>	<b>405</b>	<b>600</b>	<b>23</b>

<b>SemesterV</b>							
III	Core8:NetworkSecurity&Cryptography	6	3	25	75	100	4
III	Core9: SoftwareTesting	6	3	25	75	100	4
III	CoreLab6:ComputerHardwareM aintenance	6	3	30	45	75	4
III	Elective-IComputerNetworks	6	3	25	75	100	4
III	SkillbasedSubject3:ServerAdministration	6	3	30	45	75	3
	<b>Total</b>	<b>30</b>		<b>135</b>	<b>315</b>	<b>450</b>	<b>19</b>
<b>SemesterVI</b>							
III	Core10:WebTechnology	5	3	25	75	100	4
III	Core11:IndustrialProject	5	3	25	75	100	4
III	CoreLab7:WebTechnologyLab	5	3	30	45	75	3
III	Elective-II:Graphics&Multimedia	5	3	25	75	100	4
III	Elective III : MasteringLAN&Troubleshooting	5	3	25	75	100	4
	***NaanMuthalvan Courses – Emerging Technology for Employability – II-Skill based Course - Cyber Security @ <a href="http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf">http://kb.naanmudhalvan.in/images/7/71/Cybersecurity.pdf</a> (or) Machine Learning # <a href="http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf">http://kb.naanmudhalvan.in/images/1/19/PBL_Google.pdf</a> (or) Android APP Development \$ <a href="http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf">http://kb.naanmudhalvan.in/images/0/08/Android_App_Dev.pdf</a>	2	-	25	25	50	2
III	SkillbasedSubject4(lab):Server AdministrationLab	3	3	25	25	50	2
V	ExtensionActivities**	-	-	50	-	50	2
	<b>Total</b>	<b>30</b>		<b>230</b>	<b>395</b>	<b>625</b>	<b>25</b>
	<b>GrandTotal</b>			<b>1065</b>	<b>2435</b>	<b>3500</b>	<b>140</b>

**Note:**

*	NoContinuous InternalAssessment (CIA),UniversityExaminationsOnly.
**	NoUniversityExaminations,ContinuousInternalAssessment(CIA)Only.
***	Naan Mudhalvan – Skill courses- external marks (CEE) 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). (For theory : CIA – 12, CEE – 38; For Practical : CIA – 20, CEE – 30).	