

BHARATHIAR UNIVERSITY::COIMBATORE 641 046

**B. Sc. Computer Science and Applications
(CBCS PATTERN)**

(For the students admitted during the academic
year 2023-2024)

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	4	3	25	75	100	4
II	English - I	4	3	25	75	100	4
III	Core 1: Computing Fundamentals and C Programming	5	3	25	75	100	4
III	Core 2: Digital Fundamentals and Computer Architecture	5	3	25	75	100	4
III	Core Lab 1: Programming Lab - C	5	3	40	60	100	4
III	Allied 1: Mathematical Structures for Computer Science	5	3	25	75	100	4
IV	Environmental Studies*	2	3	-	50	50	2
Total		30		165	485	650	26
Semester II							
I	Language – II	4	3	25	75	100	4
II	English – II	4	3	25	25	50	2
III	Core 3: C++ Programming	5	3	25	75	100	4
III	Core Lab 2: Programming Lab - C++	5	3	20	30	50	2
III	Core Lab 3: Internet Basics	3	3	20	30	50	2
III	Allied 2: Discrete Mathematics	5	3	25	75	100	4
IV	Value Education – Human Rights*	2	3	-	50	50	2
	NaanMuthalvan - Skill Course 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	2		25	25	50	2
Total		30		165	385	550	22
Semester III							
I	Language – III	4	3	25	75	100	4
II	English – III	4	3	25	75	100	4
III	Core 4: Data Structures	4	3	25	75	100	4
III	Core 5: Java Programming	4	3	25	75	100	4
III	Core Lab 4: Programming Lab – JAVA	3	3	20	30	50	2
III	Allied 3: Management Information Systems	5	3	25	25	50	2
III	Skill based Subject 1: Internet Programming	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
Total		30		175	450	625	25
Semester IV							
I	Language – IV	4	3	25	75	100	4
II	English – IV	4	3	25	25	50	2

III	Core 6: System Software and Operating System	4	3	25	75	100	4
III	Core 7: Linux and Shell Programming	4	3	25	75	100	3
III	Core Lab 5: Linux and Shell Programming Lab	3	3	20	30	50	2
III	Allied 4: Organizational Behavior	4	3	25	25	50	2
III	Skill based Subject 2 Lab: PHP Programming - Lab	3	3	25	25	50	2
IV	Tamil**/Advanced Tamil* (OR) Non-major elective -II (General Awareness*)	2	3	-	50	50	2
	NaanMuthalvan – Skill Course Office Fundamentals - Lab http://kb.naanmudhalvan.in/Bharathiar_University_(BU)	2		25	25	50	2
	Total	30		195	405	600	23
Semester V							
III	Core 8: RDBMS & Oracle	6	3	25	75	100	4
III	Core 9: Visual Basic	6	3	25	75	100	4
III	Core Lab 6: Programming Lab – VB & Oracle	6	3	30	45	75	4
III	Elective – I: Client Server Computing / E-Commerce / Software Engineering	6	3	25	75	100	4
III	Skill based Subject 3: Web designing with ASP and ASP .NET	6	3	30	45	75	3
	Total	30		135	315	450	19
Semester VI							
III	Core 10: Graphics & Multimedia	5	3	25	75	100	4
III	Core 11: Project Work Lab %%	5	-	25	75	100	4
III	Core Lab 7: Programming Lab – Graphics & Multimedia	5	3	30	45	75	3
III	Elective – II: Network Security & Cryptography / Distributed Computing / Computer Networks	5	3	25	75	100	4
III	Elective – III: Mobile Computing / Web Technology / Software Testing	5	3	25	75	100	4
III	Skill Based Subject 4(Lab): ASP Lab	3	3	25	25	50	2
V	Extension Activities**	-	-	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		230	395	625	25
	Grand Total			1065	2435	3500	140

- *No Continuous Internal Assessment (CIA). Only University Examinations.
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