



**Shrimathi Devkunvar Nanalal Bhatt Vaishnav
College for Women (Autonomous)**

Owned and Managed by Cork Industries Charities Trust
Affiliated to University of Madras - Re-Accredited with 'A+' Grade by NAAC
Chromepet Chennai-600044



DEPARTMENT OF UG COMPUTER SCIENCE (AIDED)

B.Sc. COMPUTER SCIENCE

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

2022-2025 Batch



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B.Sc. COMPUTER SCIENCE

CURRICULUM FRAMEWORK 2022–2025 Batch

S.No	Sem	Paper/Allied	Title of the paper	Lecture Hours		Max. Marks			Credits
				Th	Pr	Int	Ext	Tot	
1	I Semester	Paper-I	Problem solving through Programming in C	4		40	60	100	3
2		Paper-II	Fundamentals of Digital Computer and Microprocessor (8085)	4		40	60	100	4
3		Practical-I	C Programming		3	40	60	100	2
	I Year		Environmental Studies	1					2
		Soft Skill –I	Essentials of Language and Communication skills	2					3
		NPTEL /SWAYAM	Online Course Self-Study						
			TOTAL(for Major only)					300	9
4	II Semester	Paper-III	Programming Using Python	4		40	60	100	3
5		Practical-II	Programming Using Python		4	40	60	100	2
6		Practical –III	Web Technology – [HTML,JS]		4	40	60	100	2
	I Year		Yoga/Value education-Part-I						1
		Soft Skill – II	Essentials of spoken and presentation skills	2					3
		NPTEL /SWAYAM	Online Course Self-Study						
			TOTAL(for Major only)					300	7
7	III Semester	Paper-IV	Data structures and Algorithms	4		40	60	100	3
8		Practical –IV	Data Structures Using Python		3	40	60	100	2
9		Practical-V	Web Applications Development		3	40	60	100	3
	II Year Semester	NPTEL /SWAYAM	Online Course Self-Study						
		Non-Major Elective*	Tests of Analytical Reasoning (verbal & Non Verbal)	2		50		100	2
			TOTAL(for Major only)					300	8



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10	IV Semester	Paper-V	Programming in Java	3		40	60	100	3
11		Practical –VI	Programming in Java		3	40	60	100	2
12		Practical –VII	Data Analytics Using R- I	4		40	60	100	2
		NPTEL /SWAYAM	Online Course Self-Study						
	II Year	Non-Major Elective*	Tests of Analytical Reasoning (verbal & Non Verbal)	2		50		100	2
			One month Internship						2
			TOTAL(for Major only)					300	9
13	V Semester	Paper-VI	Operating systems	5		40	60	100	4
14		Paper-VII	Data Mining	5		40	60	100	4
15		Paper-VIII	Database Management Systems	5		40	60	100	3
16		Practical – VIII	Data Analytics Using R- II		4	40	60	100	2
17	III Year	Practical – IX	Database Management Systems		4	40	60	100	2
18		Elective – I	Any one from the list	5		40	60	100	5
		Soft Skill – III	Latex		2	50		100*	3
			TOTAL(for Major only)					600	20
19	VI Semester	Paper-IX	Computer Networks	5		40	60	100	4
20		Paper-X	Software Engineering and Testing	5		40	60	100	3
21		Practical-X	Software Testing		4	40	60	100	2
22		Practical – XI	Mobile Application Development		4	40	60	100	3
23	III Year	Elective – II	Any one from the list	5		40	60	100	5
24		Project	Mini Project		5	40	60	100	7
			Yoga/Value Education part-II						1
		Soft Skill - IV	Basic Network Programming		2	50		100*	3
			TOTAL(for Major only)					600	24
			GRAND TOTAL (Major only)					2400	77