



**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)

2023-2026 Batch



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BSC COMPUTER SCIENCE

CURRICULUM FRAMEWORK 2023–2026 Batch

S E M	PART	COURSE COMPONENT	COURSE CODE	TITLE OF THE PAPER	CR ED IT S	LECTURE HOURS		CI A	ES E	TOT AL
						TH	PR			
I Y e a r I S e m e s t e r	I	Foundation Course	22ULTFC1001/ 22ULHFC1001/ 22ULSFC1001/ 22ULFFC1001	Tamil-I/ Hindi-I/ Sanskrit-I/ French-I	3	6		40	60	100
	II	Foundation Course	20UGEFC1001	General English-I	3	6		40	60	100
	III			Bridge Course		15				100
		Core Theory-I	23UCSCT1001	Problem solving through Programming in C	3	4		40	60	100
		Core Theory-II	22UCSCT1002	Fundamentals of Digital Computer and Microprocessor (8085)	4	4		40	60	100
		Core Practical-I	21UCSCP1001	C Programming	2		4	40	60	100
		Allied Theory-I	20UCSAT1001	Allied Mathematics-I	5	6		40	60	100
	IV	Life Skill -I	23USSEC1001	Effective Communication Skills	2	2		50	-	50
				TOTAL	22					650
I Y e a r II S e m e s t e r	I	Foundation Course	22ULTFC2002/ 22ULHFC2002/ 22ULSFC2002/ 22ULFFC2002	Tamil-II/ Hindi-II/ Sanskrit-II/ French-II	3	6		40	60	100
	II	English	20UGEFC2002	General English-II	3	6		40	60	100
	III	Core Theory-III	23UCSCT2003	Programming Using Python	3	4		40	60	100
		Core Practical-II	23UCSCP2002	Programming Using Python	2		4	40	60	100
		Core Practical-III	23UCSCP2003	Web Technology – [HTML,JS]	2		4	40	60	100
		Allied Theory-II	20UCSAT2002	Allied Mathematics-II	5	6		40	60	100
	IV	Value Education	20UESVE2001	Environmental Studies	2	1		50	-	50
			20UYGVE2002	Yoga and Wellness	2			50	-	50
		Life Skill-II	23UHVVE2003	Universal Human Values	2			50	-	50
				TOTAL	24					750



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II Y ea r II S e m e s t e r	I	Foundation Course	22ULTFC3003/ 22ULHFC3003/ 22ULSFC3003/ 22ULFFC3003	Tamil-III/ Hindi-III/ Sanskrit-III/ French-III	3	5		40	60	100
	II	English	20UGEFC3003	General English-III	3	5		40	60	100
	III	Core Theory-IV	21UCSCT3004	Data structures and Algorithms	3	5		40	60	100
		Core Practical-IV	21UCSCP3004	Data Structures Using Python	2		4	40	60	100
		Core Practical-V	21UCSCP3005	Web Applications Development	3		3	40	60	100
		Allied Theory-III	20UCSAT3003	Statistical Methods and its Application-I	4	6		40	60	100
		Non-Major Elective* Subject Offered to other departments	20U__ND3001 (AIDED)/	Tests of Analytical Reasoning (verbal & Non Verbal)	2	2		50	-	50
				TOTAL	20					650
II Y ea r I V S e m e s t e r	I	Foundation Course	22ULTFC4004/ 22ULHFC4004/ 22ULSFC4004/ 22ULFFC4004	Tamil-IV/ Hindi-IV/ Sanskrit-IV/ French-IV	3	5		40	60	100
	II	English	20UGEFC4004	General English-IV	3	5		40	60	100
	III	Core Theory-V	23UCSCT4005	Programming in Java	3	4		40	60	100
		Core Practical-VI	23UCSCP4006	Programming in Java	2	5		40	60	100
		Core Practical -VII	23UCSCP4007	My SQL - Lab	2		4	40	60	100
		Allied Theory-III	20UCSAT3003	Statistical Methods and its Application-II	4	6		40	60	100
		Allied Practical-I	20UCSAP4001	Statistical Methods and its Application(allied Practical)	2			40	60	100
	IV	Non-Major Elective* Subject Offered to other departments	20U__ND4002 (AIDED)/	Tests of Analytical Reasoning (verbal & Non Verbal)	2	2		50	-	50
		Life Skill - III	23ULSLM4003	Leadership and Managerial Skills	2			50		50
		Student Progression Bodies		Student Progression Activities	2			50		50
				One month Internship	2					
				TOTAL	27					850
II I Y ea r V	III	Core Theory-VI		Operating Systems	4	4		40	60	100
		Core Theory-VII		Data mining and Machine Learning	4	4		40	60	100
		Core Theory-VIII		Database Management Systems	4	5		40	60	100



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Semester		Core Practical - VIII		Machine Learning Lab	2		4	40	60	100
		Core Practical – IX		Database Management Systems Lab	2		4	40	60	100
		Elective Theory– I	24UCSET5A01 24UCSET5B01	Anyone from the list Cloud Computing / Big Data Analytics (Coursera)	5		5	40	60	100
	IV	Skill based Elective		SWAYAM MOOC/ NPTEL	3			50	-	50
		Ability Enhancement -I		Power BI – Self Learning	2					
				TOTAL	24					650
II I Y ea r V I Se m es te r	III	Core Theory--IX		Computer Networks	4	5		40	60	100
		Core Theory-X		Software Engineering and Testing	4	5		40	60	100
		Core Practical-X		Software Testing Lab	2					
		Core Practical-XI		Image Processing Lab	3		4	40	60	100
		Elective Theory – II	24UCSET6A02 24UCSET6B02	Anyone from the list Cryptography / Image Processing	5		5	40	60	100
		Elective Project	20UCSPR6001	Mini Project	5		5	40	60	100
	IV	Soft Skill -IV	23USSSE6CR4	Coursera	3		2	50	-	50
		Ability Enhancement -II		Working with COPILOT / Prompt Engineering (self Learning)	2			50		50
		Skill Development		Add on courses	2			50		50
	V	Extra-Curricular Activity	XSP	Sports	1			-	-	-
				TOTAL	33					750
				GRAND TOTAL	150					4600