

DHANALAKSHMI SRINIVASAN

COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)

(Affiliated to Bharathidasan University)

(Nationally Reaccredited with 'A' Grade by NAAC)

Perambalur – 621 212 – Tamil Nadu

Department of Computer Science

B.Sc. Computer Science – Course Structure under CBCS

(For the candidates admitted from the academic year 2021 -2022 onwards)



YEAR/ SEM.	PART	COURSE	COURSE TITLE	COURSE CODE	INS. PERIODS / WEEK	CREDIT	EXAM HRS.	MARKS		TOTAL
								INT.	EXT.	
I YEAR / I SEM	I	Language Course - I	Cheyyul (IkkalaIlakkiyam), Siru kathai, IlakkiyaVaralaru/ French / Hindi / Sanscrit / Arabic	21U1LT1/ 21U1LF1/ 21U1LH1/ 21U1LS1/ 21U1LA1	6	3	3	25	75	100
	II	English Language Course – I	English for Communication - I	21U1EL1	6	3	3	25	75	100
	III	Core Course – I	Basic Computer Concepts	21UCS1C1	6	5	3	25	75	100
		Core Course –II	Computer Basics and Animation Lab	21UCS1C2P	4	3	3	40	60	100
		Allied Course– I	Algebra and Calculus	21UCS1A1	4	3	3	25	75	100
		Allied Course –II	Numerical Analysis and Statistics	21UCS1A2	2	-	-	-	-	-
	IV	Environmental Studies	Environmental Studies	21U1EVS	2	2	3	25	75	100
TOTAL					30	19		165	435	600
I YEAR / II SEM	I	Language Course – II	Cheyyul (Idaikalallakkiyam), Puthinam / French / Hindi / Sanscrit / Arabic	21U2LT2/ 21U2LF2/ 21U2LH2/ 21U2LS2/ 21U2LA2	6	3	3	25	75	100
	II	English Language Course – II	English for Communication - II	21U2EL2	6	3	3	25	75	100
	III	Core Course – III	Programming in C Language	21UCS2C3	6	5	3	25	75	100
		Core Course – IV	Programming in C Lab	21UCS2C4P	4	3	3	40	60	100
		Allied Course –II	Numerical Analysis and Statistics	21UCS1A2	2	3	3	25	75	100
		Allied Course –III	Operations Research	21UCS2A3	4	3	3	25	75	100
	IV	Value Education	Value Education	21U2VED	2	2	3	25	75	100
TOTAL					30	22		190	510	700

II YEAR / III SEM	I	Language Course – III	Cheyyul (Kappiyangal), Urainadai, AluvaiMuraiMadalgal, IlakkiyaVaralaru / French / Hindi / Sanskrit / Arabic	21U3LT3/ 21U3LF3/ 21U3LH3/ 21U3LS3/ 21U3LA3	6	3	3	25	75	100
	II	English Language Course – III	English through Literature	21U3EL3	6	3	3	25	75	100
	III	Core Course – V	Programming in C++	21UCS3C5	6	5	3	25	75	100
		Core Course – VI	Programming in C++ Lab	21UCS3C6P	4	3	3	40	60	100
		Allied Course – IV	Applied Physics – I	21UCS3A4	3	3	3	25	75	100
		Allied Course – V	Applied Physics Practical – I (Electronics)	21UCS3A5P	3	-	-	-	-	-
	IV	Non Major Elective – I	Computer Fundamentals	21UCS3N1A	2	2	3	25	75	100
			Introduction to Information Technology	21UCS3N1B						
			Office Automation	21UCS3N1C						
	TOTAL					30	19		165	435
II YEAR / IV SEM	I	Language Course – IV	Cheyyul (SangaIlakkiyam, NeedhiIlakkiyam, Nadagam, IlakkiyaVaralaru, PodhuKatturai) / French / Hindi / Sanskrit / Arabic	21U4LT4/ 21U4LF4/ 21U4LH4/ 21U4LS4/ 21U4LA4	6	3	3	25	75	100
	II	English Language Course – IV	English for Competitive Examinations	21U4EL4	6	3	3	25	75	100
	III	Core Course – VII	Java Programming	21UCS4C7	6	5	3	25	75	100
		Core Course – VIII	Java Programming Lab	21UCS4C8P	4	4	3	40	60	100
		Allied Course – V	Applied Physics Practical – I (Electronics)	21UCS3A5P	3	3	3	40	60	100
		Allied Course – VI	Applied Physics - II	21UCS4A6	3	3	3	25	75	100
	IV	Non Major Elective - II	Recent Trends in Enterprise Information Technology	21UCS4N2A	2	2	3	25	75	100
			PC Software	21UCS4N2B						
			Working Principles of Internet	21UCS4N2C						
	TOTAL					30	23		205	495

III YEAR / V SEM.	III	Core Course IX	Data Base Management System	21UCS5C9	5	5	3	25	75	100
		Core Course X	RDBMS Lab	21UCS5C10P	5	4	3	40	60	100
		Core Course XI	Operating System	21UCS5C11	5	5	3	25	75	100
		Core Course XII	Data Structure and Algorithm	21UCS5C12	5	5	3	25	75	100
		Major Based Elective - I	Cryptography	21UCS5M1A	4	4	3	25	75	100
			Computer Graphics and Multimedia	21UCS5M1B						
			Software Engineering	21UCS5M1C						
	IV	Skill Based Elective – I	Page Maker	21UCS5S1A	2	2	3	25	75	100
			Corel Draw	21UCS5S1B						
			Flash	21UCS5S1C						
		Skill Based Elective – II	Dream Weaver	21UCS5S2A	2	2	3	25	75	100
			Illustrator	21UCS5S2B						
			Indesign	21UCS5S2C						
		Soft Skill Development	Soft Skill Development	21U5SS	2	2	3	25	75	100
TOTAL					30	29		230	570	800
III YEAR / VI SEM	III	Core Course – XIII	Php Scripting Language	21UCS6C13	6	6	3	25	75	100
		Core Course – XIV	Php Lab	21UCS6C14P	6	6	3	40	60	100
		Core Course – XV	Networking	21UCS6C15	6	6	3	25	75	100
		Major Based Elective – II	Digital Computer Fundamentals & Microprocessor	21UCS6M2A	5	4	3	25	75	100
			Dot Net Concepts	21UCS6M2B						
			Linux Administration	21UCS6M2C						
		Major Based Elective – III	Mini Project (in-house project)	21UCS6M3PW	6	4	3	40	60	100
	LINUX LAB		21UCS6M3P1							
	Multimedia Lab		21UCS6M3P2							
	IV	Gender Studies	Gender Studies	21U6GS	1	1	3	25	75	100
	V	Extension Activities	Extension Activities	-	-	1	-	-	-	-
TOTAL					30	28	-	180	420	600
GRAND TOTAL					180	140	-	1135	2865	4000



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SEM.	COURSE	COURSE TITLE	COURSE CODE	INS PERIODS / WEEK	CREDIT	EXAM HRS.	MARKS		TOTAL
							INT.	EXT.	
I	Core Course - I	J2EE Technologies	20PCS1C1	6	5	3	25	75	100
	Core Course - II	J2EE Lab	20PCS1C2P	5	4	3	40	60	100
	Core Course - III	OOAD & UML	20PCS1C3	5	5	3	25	75	100
	Core Course - IV	Distributed Operating System	20PCS1C4	6	5	3	25	75	100
	Elective Course -I	Soft Computing	20PCS1E1A	5	3	3	25	75	100
		Mobile Communication	20PCS1E1B						
	Application Oriented Course - I	Grid Computing	20PCS1A1	3	3	3	25	75	100
TOTAL				30	25	-	165	435	600
II	Core Course - V	Cloud Computing	20PCS2C5	6	4	3	25	75	100
	Core Course - VI	XML and Web Services	20PCS2C6	5	4	3	25	75	100
	Core Course - VII	Open Source Web Devevelopment	20PCS2C7	6	4	3	25	75	100
	Core Course- VIII	Open Source Technology Lab	20PCS2C8P	5	3	3	40	60	100
	Elective Course -II	Advanced Software Engineering	20PCS2E2A	5	4	3	25	75	100
		Parallel Computing	20PCS2E2B						
	Application Oriented Course - II	XML & Web Services Lab	20PCS2A2P	3	3	3	40	60	100
TOTAL				30	22	-	180	420	600

III	Core Course - IX	Distributed Technologies	20PCS3C9	6	5	3	25	75	100	
	Core Course - X	Distributed Technologies Lab	20PCS3C10P	6	4	3	40	60	100	
	Core Course - XI	Data Mining and Warehousing	20PCS3C11	6	5	3	25	75	100	
	Core Course - XII	Compiler Design	20PCS3C12	6	4	3	25	75	100	
	Elective Course – III	Artificial Intelligence	20PCS3E3A	6	5	3	25	75	100	
		Pervasive Computing	20PCS3E3B							
	TOTAL				30	23	-	140	360	500
IV	Core Course –XIII	Big Data Analytics	20PCS4C13	6	5	3	25	75	100	
	Core Course –XIV	Cyber Security	20PCS4C14	6	5	3	25	75	100	
	Project	Project	20PCS4PW	18	10	-	-	-	100	
	TOTAL				30	20	-	50	150	300
	GRAND TOTAL				120	90	-	535	1365	2000