

Illustration for B.C.A. Curriculum Design

Sem.	Part	Course Code	Courses	List of Courses	T/P	Credit	Hours per week (L/T/P)	Max. Marks			
								Int.	Ext.	Total	
I	Part-I	2311T	T/OL	□□□□□ □□□□□□□□ □□□□□□ -I/ other Language	T	3	6	25	75	100	
	Part-II	2312E	E	General English I	T	3	6	25	75	100	
	Part-III	23BCA1C1	CC-1		Python Programming	T	5	5	25	75	100
		23BCA1P1	CC-2		Python Programming Lab	P	3	4	25	75	100
		-	Generic Elective (Allied)	B.Sc.IT/B.Sc.,CS/ B.Sc.Mathematics/ B.Sc.Physics	Respective Allied Theory Practical	T P	3 2	3 2	25 25	75 75	100 100
	Part IV	23BCA1S1	SEC-I		Web Designing	T	2	2	25	75	100
		23BCA1FC	FC		Structured programming in C	T	2	2	25	75	100
				TOTAL		23	30	175	525	700	
II	Part-I	2321T	T/OL	□□□□□ □□□□□□□□ □□□□□□-2 /Other Languages-II	T	3	6	25	75	100	
	Part-II	2322E	E	General English-II	T	3	6	25	75	100	
	Part-III	23BCA2C1	CC- 3		Object Oriented Programming Concepts using C++	T	5	5	25	75	100
		23BCA2P1	CC- 4		C++ Programming Lab	P	3	4	25	75	100
		--	Generic Elective (Allied)	B.Sc. IT/B.Sc., CS/B.Sc. Mathematics/B.Sc. Physics	Respective Allied Theory Practical	T P	3 2	3 2	25 25	75 75	100 100
	Part-IV	23BCA2S1	SEC-II		Fundamentals of Information Technology	T	2	2	25	75	100
		23BCA2S2	SEC-III		Multimedia Systems	T	2	2	25	75	100
					Naan Mudhalvan Course	T	2	2			
					TOTAL	-	23	30	200	600	800
III	Part-I	2331T	T/OL	□□□□□ □□□□□□□□□□ □□□□□□□□□□ /Other Languages-III	T	3	6	25	75	100	
	Part-II	2332E	E	General English - III	T	3	6	25	75	100	
	Part-III	23BCA3C1	CC -5		Data Structures and Algorithms	T	4	5	25	75	100
		23BCA3P1	CC -6		Data Structures and Algorithms Lab using C++	P	4	4	25	75	100
		--	Generic Elective (Allied)	B.Sc. IT/B.Sc., CS/B.Sc. Mathematics/B.Sc. Physics	Respective Allied Theory Practical	T P	3 2	3 2	25 25	75 75	100 100
	Part-IV	23BCA3S1	SEC-IV		Software Testing	T	2	2	25	75	100
		233AT/ 23BCA3S2	SEC-V		Adipadai Tamil/ Biometrics	T	2	2	25	75	100
				TOTAL		23	30	300	600	900	

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IV	Part-I	2341T	T/OL	□□□□□□□ □□□□□□□□□□ /Other Languages -IV	T	3	6	25	75	100	
	Part-II	2342E	E	General English - IV	T	3	6	25	75	100	
	Part-III	23BCA4C1	CC- 7		Programming in Java	T	4	4	25	75	100
		23BCA4P1	CC- 8		Programming in Java Lab	P	3	3	25	75	100
		--	Generic Elective (Allied)		B.Sc. IT/B.Sc., CS/B.Sc. Mathematics/B.Sc. Physics	T	3	3	25	75	100
		--			Respective Allied Theory Practical	P	2	2	25	75	100
	Part-IV	23BCA4S1	SEC-VI		PHP Programming	T	2	2	25	75	100
		234AT/ 23BCA4S2	SEC-VII		Adipadai Tamil/ Cyber Forensics	T	2	2	25	75	100
		23BES4			Environmental Studies	T	2	2	25	75	100
					TOTAL	-	24	30	300	600	900
V	Part-III	23BCA5C1	CC -9	Operating Systems	T	4	5	25	75	100	
		23BCA5C2	CC -10	ASP .Net Programming	T	4	5	25	75	100	
		23BCA5P1	CC- 11	ASP. Net Programming Lab	P	4	5	25	75	100	
		23BCA5E1/ 23BCA5E2	DSE-I	Database Management System / Natural Language Processing	P	3	4	25	75	100	
		23BCA5E3/ 23BCA5E4	DSE-II	Internet of Things and its Applications / Image Processing	T	3	4	25	75	100	
		23BCA5PR	CC -12	Project with Viva voce (Individual)	T	4	5	25	75	100	
	Part-IV	23BVE5			Value Education	T	2	2	25	75	100
		23BCA5I			Internship/Industrial Training (Summer vacation at the end of IV semester activity)	T	2	-	25	75	100
					TOTAL		26	30	200	600	800
VI	Part -III	23BCA6C1	CC- 13	Computer Networks	T	4	6	25	75	100	
		23BCA6C2	CC 14	Data Analytics using R Programming	T	4	6	25	75	100	
		23BCA6P1	CC- 15	R Programming Lab	P	4	6	25	75	100	
		23BCA6E1/ 23BCA6E2	DSE-III	Artificial Intelligence / Fuzzy Logic	T	3	5	25	75	100	
		23BCA6E3/ 23BCA6E4	DSE-IV	Cloud Computing / Artificial Neural Networks	T	3	5	25	75	100	
Part-IV	23BCA6S1	PCS		Essential Reasoning and Quantitative Aptitude	T	2	2	25	75	100	
Part V				Extension Activity		1					
				TOTAL		21	30	175	425	600	

- T/OL–Tamil/Other Languages
- E–English
- CC –Core course – Core competency, critical thinking, analytical reasoning, research skill & teamwork
- Generic Elective (Allied)
- FC-Foundation Course
- EC – Elective Course
- SEC – Skill Enhancement Course
- T/P-T-Theory, P-Practical

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