

BHARATHIAR UNIVERSITY: : COIMBATORE 641 046

B. Sc. Computer Science Curriculum

(For the students admitted during the academic year 2020 – 21 onwards)

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	ESE	Total
FIRST SEMESTER							
	Language – I	4	6		25	75	100
	English – I	4	6		25	75	100
	Core 1: Computing Fundamentals and C Programming	4	4		25	75	100
	Core 2: Digital Fundamentals and Computer Architecture	4	4		25	75	100
	Core Lab 1: Programming Lab – C	4		3	40	60	100
	Allied 1: Mathematical Structures for Computer Science	4	5		25	75	100
	Environmental Studies #	2	2		-	50	50
Total		26	27	3	165	485	650
SECOND SEMESTER							
	Language – II	4	6		25	75	100
	English – II	4	6		25	75	100
	Core 3: C++ Programming	4	5		25	75	100
	Core Lab 2: Programming Lab – C++	4		4	40	60	100
	Core Lab 3: Internet Basics	2		2	20	30	50
	Allied 2: Discrete Mathematics	4	5		25	75	100
	Value Education – Human Rights #	2	2		-	50	50
Total		24	24	6	160	440	600
THIRD SEMESTER							
	Core 4: Data Structures	4	6		25	75	100
	Core 5: Java Programming	4	6		25	75	100
	Core Lab 4: Programming Lab – Java	4		5	25	75	100
	Allied 3: Computer Based Optimization Techniques	4	6		25	75	100
	Skill based Subject 1 : Software Engineering and Software Project Management	3	5		20	55	75
	Tamil @/ Advanced Tamil (OR) Non-major elective-1 (Yoga for Human Excellence)# / Women’s Rights#	2	2		-	50	50
Total		21	25	5	120	405	525

FOURTH SEMESTER							
	Core 6: System Software and Operating System	4	6		25	75	100
	Core 7: Linux and Shell Programming	4	6		25	75	100
	Core Lab 5: Linux and Shell Programming Lab	4		6	40	60	100
	Allied 4: Business Accounting	4	6		25	75	100
	Skill based subject 2 (lab) : Software Project Management-Lab	3	4		30	45	75
	Tamil @/ Advanced Tamil (OR) Non-major elective-II (General Awareness) #	2	2		-	50	50
	Total	21	24	6	145	380	525
FIFTH SEMESTER							
	Core 8: RDBMS & Oracle	4	6		25	75	100
	Core 9: Visual Basic	4	6		25	75	100
	Core Lab 6: Programming Lab – VB & Oracle	4		6	40	60	100
	Elective-I PYTHON Programming/ Computer Networks / Organizational Behavior	4	6		25	75	100
	Skill based Subject 3: Software Testing	3	6		20	55	75
	Total	19	24	6	135	340	475
SIXTH SEMESTER							
	Core 10: Graphics & Multimedia	4	5		25	75	100
	Core 11: Project Work Lab % %	8	5		-	200	200
	Core Lab 7: Programming Lab – Graphics & Multimedia	4		6	40	60	100
	Elective-II : Network Security and Cryptography / Artificial Intelligence and Expert Systems / Web Technology	4	5		25	75	100
	Elective-III : Data Mining / Open Source Software / Internet of Things (IoT)	4	5		25	75	100
	Skill based Subject 4 (lab) : Software Testing Lab	3		4	30	45	75
	Extension Activities	2			50	-	50
	Total	29	20	10	195	530	725
	Grand Total	140	144	36	920	2580	3500
ONLINE COURSES							