



S.A. COLLEGE
OF
ARTS & SCIENCE
Affiliated to the University of Madras

Syllabus for

B.Sc Computer Science

(With effect from the Academic Year 2020-21)

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COURSE STRUCTURE:

I SEMESTER							
COURSE CONTENT	COURSE NAME	Ins. Hrs	CREDITS	MAX. MARKS			
				Ext.	Int.	Total	
PART I	Tamil/ Other languages – I	4	3	75	25	100	
PART II	BP2-ENG01- Communicative English	3	3	50	50	100	
PART III	BCE-CSC01 - Problem Solving using Python@	6	4	75	25	100	
	BCE-CSC02 - Core Practical-I - Problem Solving using Python Lab@	5	3	60	40	100	
	BMA-CSA01-Allied I: Mathematics-I@	6	5	75	25	100	
PART IV	Basic Tamil/Advanced Tamil/NME I*	2	2	75	25	100	
	BP4-EPSC- English for Physical Science	4	4	50	50	100	
Total Credits			24				
II SEMESTER							
PART I	Tamil/ Other languages – II	4	3	75	25	100	
PART II	English – II	4	3	75	25	100	
PART III	BCE-CSC03 - Computer Organization@	6	4	75	25	100	
	BCE-DSC04 - Core Practical-II - Computer Organization Lab	6	3	60	40	100	
	BMA-CSA02-Allied II: Mathematics II@	6	5	75	25	100	
PART IV	Basic Tamil/Advanced Tamil/NME-II*	2	2	75	25	100	
	Soft Skill	2	3	50	50	100	
Total Credits			23				
III SEMESTER							
PART I	Tamil/ Other languages – III	4	3	75	25	100	
PART II	English - III	4	3	75	25	100	
PART III	BCE-CSC05 - Java and Data Structures@	6	4	75	25	100	
	BCE-CSC06 - Core Practical-III - Data Structures using Java Lab@	3	3	60	40	100	
	BPS-CSA01 - Allied III-Physics-I(Theory)@	6	3	75	25	100	
	BPS-CSAP1-Allied Physics – I (Practical)	3	2	Examination will be held in IV Sem.			
	(OR)						
	BST-CSA01-Allied III-Statistics I@	9	5	75	25	100	
PART IV	Soft Skill	2	3	50	50	100	
	Environmental Studies	2	Examination will be held in Semester IV				
Total Credits			21				

IV SEMESTER						
PART I	Tamil/ Other languages – IV	4	3	75	25	100
PART II	English - IV	4	3	75	25	100
PART III	BCE-CSC07 - Web Technology@	6	4	75	25	100
	BCE-CSC08 - Core Practical-IV - Web Technology Lab@	3	3	60	40	100
	BPS-CSA02 – Allied IV- Physics-II (Theory)@	6	3	75	25	100
	BPS-CSAP1 - Allied Physics–I & II (Practicals)	3	2	60	40	100
	(OR)					
	BST-CSA02- Allied IV- Statistics II@	9	5	75	25	100
PART IV	Soft Skill	2	3	50	50	100
	Environmental Studies	2	2	75	25	100
Total Credits				23		
V SEMESTER						
COURSE CONTENT	COURSE NAME	Ins. Hrs	CREDITS	MAX. MARKS		
				Ext.	Int.	Total
PART III	BCE-CSC09 - Computer Network@	6	4	75	25	100
	BCE-CSC10 - Operating System@	6	5	75	25	100
	BCE-CSC11 - Relational Database Management System@	6	4	75	25	100
	BCE-CSC12 - Core Practical-V - Operating System Lab@	3	3	60	40	100
	BCE-CSC13 - Core Practical-VI - PL/SQL Lab@	3	3	60	40	100
	Elective I-Choose any one from the list	5	5	75	25	100
PART IV	Value Education	2	2	75	25	100
Total Credits				26		
VI SEMESTER						
PART III	BCE-CSC14 - Software Engineering@	6	4	75	25	100
	BCE-CSC15 - Introduction to Data Science@	6	5	75	25	100
	BCE-DSC16 - Introduction to Cloud Computing	6	4	75	25	100
	BCE-DSC17 - Core Practical-VII - CASE Tools and Testing Tools Lab	3	3	60	40	100
	Elective II- Choose any one from the list	5	5	75	25	100
	BCE-CSC18 - Core Practical-VIII - Mini Project@		5	60	40	100
PART V	Extension Activities		1			
Total Credits				27		
Total credits (Core, Elective, SBS)				143		

***NME: Choose Any one From the Other Department**

	Elective I
BCE-DSE1A	Artificial Intelligence and Expert System
BCE-DSE1B	Graphics and Visualization
BCE-DSE1C	Network Security
	Elective II
BCE-DSE2A	Mobile Computing
BCE-CSE2B	IOT and its Applications@
BCE-DSE2C	Block Chain Technology

@ - Common subject of other course/s.