



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

Syllabus for
BACHELOR OF **C**OMPUTER
APPPLICATION
(With effect from the Academic Year 2020-21)

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	2	60	40	100
	BMA-CSA01-Allied I: Mathematics I@	6	5	75	25	100
PART IV	Basic Tamil/Advanced Tamil/NME	2	2	75	25	100
	BP4-EPSC-English for Physical Sciences	4	4	50	50	100
Total Credits			23			
II SEMESTER						
PART I	Tamil/ Other languages – II	4	3	75	25	100
PART II	English – II	4	3	75	25	100
PART III	BSA-CSC03 - Object Oriented Programming Concepts using C ++@	6	4	75	25	100
	BSA-CSC04 - Core Practical-II - C++ programming Lab@	6	3	60	40	100
	BMA-CSA02-Allied II: Mathematics II@	6	5	75	25	100
PART IV	Basic Tamil/Advanced Tamil/Non Major Elective II	2	2	75	25	100
	Soft Skill	2	3	50	50	100
Total Credits			23			
III SEMESTER						
PART III	BCA-DSC05 - Data Structures	6	4	75	25	100
	BCA-DSC06 - Java programming	6	4	75	25	100
	BCE-CSC03 - Computer Organization@	6	4	75	25	100
	BCA-DSC08 - Core Practical-III - Data Structures using Java Lab	6	3	60	40	100
	BCA-DSA03-Allied III: Financial Accounting	6	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			23			
IV SEMESTER						
PART III	BCE-CSC09 - Computer Network@	6	4	75	25	100
	BSA-CSC15 - Open Source Technologies@	6	4	75	25	100
	BCA-DSC11 - E-Commerce Technologies	6	4	75	25	100
	BSA-CSC16 - Core Practical-IV - Open Source Technologies Lab@	6	3	60	40	100
	BCA-DSA04-Allied IV: Cost and Management Accounting	6	5	75	25	100
PART IV	Soft Skill	2	3	50	50	100
	Environmental Studies	2	2	75	25	100
Total Credits			25			

V SEMESTER						
COURSE CONTENT	COURSE NAME	Ins. Hrs	CREDITS	MAX. MARKS		
				Ext.	Int.	Total
PART III	BCE-CSC14 - Software Engineering@	6	4	75	25	100
	BCE-CSC10 - Operating System@	6	4	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	2	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			24			
VI SEMESTER						
PART III	BCA-DSC18 - Web Design and Development	6	4	75	25	100
	BCA-DSC19 - Data Mining	6	4	75	25	100
	BCA-DSC20 - Mobile Application Development	6	4	75	25	100
	BCA-DSC21 - Core Practical-VII - Mobile Application Development Lab	3	3	60	40	100
	Elective II- Choose any one from the list	5	5	75	25	100
	BCE-CSC18 - Mini Project@		5	60	40	100
PART V	Extension Activities		1			
Total Credits			26			
Total credits (Core, Elective, SBS)			143			

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

Elective I	
BCA-DSE1A	Principles of Information Security
BSA-CSE1B	Multimedia and its Applications@
BCA-DSE1C	Resource Management Techniques
Elective II	
BSA-CSE2A	Data Analytics using R@
BCE-CSE2B	IOT and its Applications@
BCA-DSE2C	Software Project Management

@ - Common subject to other course/s.