

ALAGAPPA UNIVERSITY, KARAIKUDI
NEW SYLLABUS FOR AFFILIATED COLLEGES
UNDER CBCS PATTERN WITH EFFECT FROM 2022-23 ONWARDS

B.Sc. COMPUTER SCIENCE
Programme Structure

Sem.	Part	Course Code	Courses	Title of the Course	T/P	Credits	Hrs./ Week	Max. Marks		
								Int.	Ext.	Total
I	I	2211T	T/OL	Tamil/other languages – I	T	3	6	25	75	100
	II	712CE	E	Communicative English – I	T	3	6	25	75	100
	III	22BCE1C1	CC	Programming in C	T	5	5	25	75	100
		22BCE1P1	CC	Practical- Programming in C	P	4	4	40	60	100
		-	AL – IA	BCA/B.Sc., IT/Mathematics/ Electronics/ Software	T	3	3	25	75	100
	-	AL - IA	Practical-Respective Allied Theory Course	P	2	2	40	60	100	
	IV	22BVE1	SEC - I	Value Education	T	2	2	25	75	100
				Library		-	2	-	-	-
				Total		22	30	205	495	700
II	I	2221T	T/OL	Tamil/other languages – II	T	3	6	25	75	100
	II	722CE	E	Communicative English – II	T	3	6	25	75	100
	III	22BCE2C1	CC	Object Oriented Programming with C++	T	5	5	25	75	100
		22BCE2P1	CC	Practical- Object Oriented Programming with C++	P	4	4	40	60	100
		-	AL – IA	BCA/B.Sc., IT/ Mathematics / Electronics/ Software	T	3	3	25	75	100
	-	AL - IA	Practical-Respective Allied Theory Course	P	2	2	40	60	100	
	IV	22BES2	SEC - II	Environmental Studies	T	2	2	25	75	100
				Library		-	2	-	-	-
				Total		22	30	205	495	700
III	I	2231T	T/OL	Tamil/other languages – III	T	3	6	25	75	100
	II	2232E	E	English for Enrichment - I	T	3	6	25	75	100
	III	22BCE3C1	CC	Microprocessor and its applications	T	3	3	25	75	100
		22BCE3C2	CC	Data Structures and Computer Algorithms	T	3	3	25	75	100
		22BCE3P1	CC	Practical- Data Structures and Computer Algorithms	P	3	3	40	60	100
	-	AL – IA	BCA/B.Sc., IT/Mathematics/ Electronics/ Software	T	3	3	25	75	100	
	-	AL - IA	Practical-Respective Allied Theory Course	P	2	2	40	60	100	
IV	22BE3	SEC-III	Entrepreneurship	T	2	2	25	75	100	
	-	NME-I	1. Adipadai Tamil (or) 2. Advanced Tamil (or) 3. IT Skills for Employment (or) MOOC's	T	2	2	25	75	100	
				Total		24	30	255	645	900
IV	I	2241T	T/OL	Tamil/other languages – IV	T	3	6	25	75	100
	II	2242E	E	English for Enrichment - II	T	3	6	25	75	100
		22BCE4C1	CC	Java Programming	T	4	4	25	75	100
		22BCE4C2	CC	Operating System	T	4	4	25	75	100

	III	22BCE4P1	CC	Practical – Java Programming	P	3	3	40	60	100
		-	AL – IA	BCA/B.Sc., IT/Mathematics/ Electronics/ Software	T	3	3	25	75	100
		-	AL - IA	Practical-Respective Allied Theory Course	P	2	2	40	60	100
	IV	-	NME-II	1. Adipadai Tamil (or) 2. Advanced Tamil (or) 3. Small Business Management (or) MOOC's	T	2	2	25	75	100
				Total		24	30	230	570	800
V	III	22BCE5C1	CC	Relational Database Management Systems	T	4	4	25	75	100
		22BCE5C2	CC	Python Programming	T	4	4	25	75	100
		22BCE5C3	CC	Software Engineering	T	4	4	25	75	100
		22BCE5C4	CC	Computer Graphics	T	4	4	25	75	100
		22BCE5P1	CC	Practical- Relational Database Management Systems Lab	P	4	6	40	60	100
		22BCE5P2	CC	Practical – Python Programming	P	4	6	40	60	100
				Career Development/ Employability Skills		-	2	-	-	-
			Total		24	30	180	420	600	
		22BCE6I		Internship		24	30	150	250	400
				Or						
VI	III	22BCE6C1/ 22BCE6C2	DSE	Computer Networks/ Network Security	T	6	6	25	75	100
		22BCE6C3/ 22BCE6C4		Mobile Computing / Data Mining and Data Warehousing	T	6	6	25	75	100
		22BCE6C5/ 22BCE6C6		.Net Technologies / Embedded Systems	T	6	6	25	75	100
		22BCE6C7/ 22BCE6C8		Internet of things / Cloud Computing	T	6	6	40	60	100
		others		Library/ Yoga etc.,		-	2	-	-	-
	III			Career Development / Employability Skills		-	4	-	-	-
			Total		24	30	100	300	400	
				Or						
VI	III	22BCE6PR	DSE	Project**		6	10	25	75	100
		22BCE6C1/ 22BCE6C2		Computer Networks/ Network Security	T	6	6	25	75	100
		22BCE6C3/ 22BCE6C4		Mobile Computing / Data Mining and Data Warehousing	T	6	6	25	75	100
		22BCE6C5/ 22BCE6C6		.Net Technologies / Embedded Systems	T	6	6	25	75	100
				Library / Yoga / Career development/ employability skills/Field trip etc.		-	2	-	-	-
			Total		24	30	100	300	400	
				Grand Total		140	-	-	-	4100

Note: ** Students are recommended to visit IT Park / IT Based Sectors / IT Companies

Sem.	Part	Course Code	Title of the Paper	Credit	Hours/Week	Marks		
						Int.	Ext.	Total
I	III	71BEPP- I	Professional English for Physical Science -I	4	5	25	75	100
II		72BEPP - II	Professional English for Physical Science –II	4	5	25	75	100
III		*	Professional English for Physical Science –III	4	5	25	75	100
IV			Professional English for Physical Science –IV	4	5	25	75	100

*The Syllabus of Professional English for III & IV Semester will be provided after Receiving the syllabus from TANSICHE.

As per TANSICHE, the Professional English book will be taught to all four streams apart from the existing hours of teaching/additional hours of teaching (1hour/day) as a 4 credit paper as an add on course on par with Major paper and completion of the paper is a must to continue his/her studies further.

- TOL-Tamil/Other Languages,
- E – English
- CC-Core course –Core competency, critical thinking, analytical reasoning, research skill & teamwork
- Allied -Exposure beyond the discipline
- AECC- -Ability Enhancement Compulsory Course (Professional English & Environmental Studies) - Additional academic knowledge, psychology and problem solving etc.,
- SEC-Skill Enhancement Course - Exposure beyond the discipline (Value Education , Entrepreneurship Course, Computer application for Science, etc.,
- NME -Non Major Elective – Exposure beyond the discipline
- DSE – Discipline specific elective – -Student choice – either or
 - Internship
 - If internship – Marks = Internal =150 (75+75) two midterm evaluation through Viva voce and External 250 marks (Report =150 +Viva Voce=100) =Total 400 marks
 - Theory papers or
 - Project + 3 theory papers.
- MOOCs – Massive Open Online Courses
 - * T- Theory, P- Practical

Practical Subjects:

The following list of parameters taken into account for the evaluation of practical examination. *Total Marks: 100 (Internal: 40 marks, External: 60 Marks)*

Parameters:

For Internal Marks:

- i. Internal test: 20
- ii. Record Work: 20

Total: 40

For External Marks:

- i. Aim, Procedure / Algorithm and Program: 15
- ii. Coding and Compilation: 15
- iii. Debugging: 15