

**ALAGAPPA UNIVERSITY, KARAIKUDI**  
**NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2017-18)**

**B.Sc. COMPUTER SCIENCE – PROGRAMME STRUCTURE**

Sem	Part	Course Code	Title of the Course	Cr.	Hrs./ Week	Max. Marks		
						Int.	Ext.	Total
I	I	711T	<b>Tamil/other languages – I</b>	3	6	25	75	100
	II	712E	<b>English – I</b>	3	6	25	75	100
	III	7BCE1C1	<b>Core-I–</b> Programming in C	4	6	25	75	100
		7BCE1P1	<b>Core-II–</b> Programming in C Lab	4	6	<b>40</b>	<b>60</b>	100
			<b>Allied – I</b> (Theory only) (or)	5	5	25	75	100
			<b>Allied – I</b> (Theory cum Practical)	4	3	15	60	75
			<b>Allied Practical – I</b>	-	2**	--	--	---
	IV	7NME1A/ 7NME1B/ 7NME1C	<b>(1) Non-Major Elective-I –</b> (A)jkpo;nkhopapd; mbg;gilfs;;;/ <b>(B)</b> ,f;fhy ,yf;fpak; / <b>(C) Communicative English</b>	2	1	25	75	100
			<b>Total (Allied Theory only)</b>	<b>21</b>	<b>30</b>	--	--	<b>600</b>
			<b>Total (Allied Theory cum Practical)</b>	<b>20</b>				<b>575</b>
II	I	721T	<b>Tamil/other languages – II</b>	3	6	25	75	100
	II	722E	<b>English – II</b>	3	6	25	75	100
	III	7BCE2C1	<b>Core – III –</b> Object Oriented Programming with C++	4	6	25	75	100
		7BCE2P1	<b>Core – IV –</b> Object Oriented Programming with C++ Lab	4	5	<b>40</b>	<b>60</b>	100
			<b>Allied – II</b> (Theory only) (or) <b>Allied–II</b> (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			<b>Allied Practical – I</b>	2	2	20	30	50
	IV	7BES2	<b>(3) Environmental Studies</b>	2	2	25	75	100
		<b>Total (Allied Theory only)</b>	<b>21</b>	<b>30</b>	--	--	<b>600</b>	
		<b>Total (Allied Theory cum Practical)</b>	<b>22</b>				<b>625</b>	
III	I	731T	<b>Tamil/other languages – III</b>	3	6	25	75	100
	II	732E	<b>English – III</b>	3	6	25	75	100
	III	7BCE3C1	<b>Core – V –</b> Data Structures and Computer Algorithms	4	5	25	75	100
		7BCE3P1	<b>Core-VI–</b> Data Structures and Computer Algorithms Lab (using C and C++)	4	5	<b>40</b>	<b>60</b>	100
	IV		<b>Allied – I</b> (Theory only) (or)	5	5	25	75	100
			<b>Allied – I</b> (Theory cum Practical)	4	3	15	60	75
			<b>Allied Practical – I</b>	-	2**	--	--	---
	IV	7NME3A/ 7NME3B/ 7NME3C	<b>(1) Non-major Elective– II –</b> (A) ,yf;fpaKk; nkhopg;gad;ghLk;/ <b>(B)</b> goe;jkpo; ,yf;fpaq;fSk; ,yf;fpatuyhWk;/ <b>(C)</b> Effective Employability Skills	2	1	25	75	100
		7SBS3A1/ 7SBS3A2/ 7SBS3A3	<b>(2) Skill Based Subjects – I</b>	2	2	25	75	100
	V	7BEA3	<b>Extension activities</b>	1	-	100	--	100

		<b>Total (Allied Theory only)</b>		<b>24</b>	<b>30</b>	--	--	<b>800</b>		
		<b>Total (Allied Theory cum Practical)</b>		<b>23</b>				<b>775</b>		
IV	I	741T	<b>Tamil/other languages – IV</b>	3	6	25	75	100		
	II	742E	<b>English – IV</b>	3	6	25	75	100		
	III	7BCE4C1	<b>Core – VII – Java Programming</b>		4	4	25	75	100	
		7BCE4P1	<b>Core–VIII–Java Programming Lab</b>		4	5	<b>40</b>	<b>60</b>	100	
			<b>Allied – II (Theory only) (or) Allied–II (Theory cum Practical)</b>		5	5	25	75	100	
			<b>Allied Practical – I</b>		4	3	15	60	75	
			<b>Allied Practical – I</b>		2	2	20	30	50	
	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	<b>(2) Skill Based Subjects – II</b>		2	2	25	75	100	
	IV	7BVE4/ 7BMY4/ 7BWS4	<b>(4) Value Education / Manavalakalai Yoga / Women’s Studies</b>		2	2	25	75	100	
			<b>Total (Allied Theory only)</b>		<b>23</b>	<b>30</b>	--	--	<b>700</b>	
		<b>Total (Allied Theory cum Practical)</b>		<b>24</b>	<b>725</b>					
V	III	7BCE5C1	<b>Core – IX – Operating System</b>		4	5	25	75	100	
		7BCE5C2	<b>Core – X – Relational Database Management Systems</b>		4	5	25	75	100	
		7BCE5P1	<b>Core – XI – Relational Database Management Systems Lab</b>		4	6	<b>40</b>	<b>60</b>	100	
		7BCEE1A / 7BCEE1B	<b>Elective–I-A) Data Mining and Data Warehousing (or) B)WEB Design</b>		5	5	25	75	100	
		7BCEE2A / 7BCEE2B	<b>Elective–II– A) Digital Principles and Computer Organization (or) B) Microprocessor and Microcontroller</b>		5	5	25	75	100	
	IV	7SBS5A4/ 7SBS5A5/ 7SBS5A6/ 7SBS5A7	<b>(2) Skill Based Subjects – I</b>		2	2	25	75	100	
			<b>(2) Skill Based Subjects – I</b>		2	2	25	75	100	
			<b>Total</b>		<b>26</b>	<b>30</b>	--	--	<b>700</b>	
	VI	III	7BCE6C1	<b>Core – XII –Computer Networks</b>		4	5	25	75	100
			7BCE6C2	<b>Core – XIII – Computer Graphics</b>		4	5	25	75	100
7BCE6C3			<b>Core – XIV – Software Engineering</b>		4	5	25	75	100	
7BCE6PR			<b>Core–XV–Project Work &amp; Viva-Voce</b>		4	6	<b>40</b>	<b>60</b>	100	
III		7BCEE3A/ 7BCEE3B	<b>Elective – III – A) VB.NET and ASP.NET programming (or) B) Programming with Linux, Apache, MySQL, and PHP (LAMP)</b>		5	5	25	75	100	
			<b>(2) Skill Based Subjects – II</b>		2	2	25	75	100	
IV		7SBS6B4/ 7SBS6B5/ 7SBS6B6/ 7SBS6B7	<b>(2) Skill Based Subjects – II</b>		2	2	25	75	100	
			<b>(2) Skill Based Subjects – II</b>		2	2	25	75	100	
		<b>Total</b>		<b>25</b>	<b>30</b>	--	--	<b>700</b>		
		<b>Grand Total</b>		<b>140</b>	<b>180</b>	--	--	<b>4100</b>		

**\*\* University Examinations will be held in the Even Semesters only.**

**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
- iv. Results: 15

**Total: 60**

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**For Project Work:**

1. The students will be allowed to work on any project based on the concepts studied in core/elective courses.
2. The project work should be compulsorily done in the college only under the supervision of the department staffs.
3. The combined project shall be undertaken by the students as a team of two.
4. The number of teams should be equally assigned to existing Staff members.
5. The following list of parameters taken into account for the evaluation of Project work and Viva-voce.

*Total Marks: 100 (Internal: 40 marks, External: 60 Marks)*

**Parameters:**

**For Internal Marks:** Two review meetings:  $2 \times 15 = 30$  Marks  
Overall Performance: = 10 Marks

**For External Marks:** Project Report: 20 Marks  
Project demo & Presentation: 20 Marks  
Viva-Voce: 20 Marks

