

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

**B.Sc. MATHEMATICS – PROGRAMME STRUCTURE**

Sem.	Part	Course Code	Title of the Course	Cr.	Hrs. / Week	Max. Marks		
						Int.	Ext.	Total
I	I	711T	Tamil / Other Languages – I	3	6	25	75	100
	II	712E	English – I	3	6	25	75	100
	III	7BMA1C1	Core–I-Calculus	4	6	25	75	100
		7BMA1C2	Core–II-Algebra and Trigonometry	4	6	25	75	100
			Allied – I (Theory only) (or) Allied – I (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – I	-	2**	--	--	---
	IV	7NME1A/ 7NME1B/ 7NME1C	(1) Non-Major Elective – I	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	Tamil / Other Languages – II	3	6	25	75	100
	II	722E	English – II	3	6	25	75	100
	III	7BMA2C1	Core–III-Analytical Geometry of 3D and Vector Calculus	4	6	25	75	100
		7BMA2C2	Core–IV-Sequences and Series	4	5	25	75	100
			Allied – II (Theory only) (or) Allied– II (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – I	2	2	20	30	50
	IV	7BES2	(3) Environmental Studies	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	Tamil / Other Languages – III	3	6	25	75	100
	II	732E	English – III	3	6	25	75	100
	III	7BMA3C1	Core–V-Abstract Algebra	4	5	25	75	100
	III	7BMA3C2	Core–VI-Differential Equations and its Applications	4	5	25	75	100
	III		Allied – III (Theory only) (or) Allied–III (Theory cum Practical)	5 4	5 3	25 15	75 60	100 75
			Allied Practical – II	-	2**	--	--	---
	IV	7NME3A/ 7NME3B/ 7NME3C	(1) Non-major Elective – II	2	1	25	75	100
		7SBS3A1/ 7SBS3A2/ 7SBS3A3	(2) Skill Based Subjects– I	2	2	25	75	100
V	7BEA3	Extension Activities	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	Tamil / Other Languages – IV	3	6	25	75	100

	II	742E	<b>English – IV</b>	3	6	25	75	100
	III	7BMA4C1	<b>Core–VII-Transform Techniques</b>	4	5	25	75	100
	III	7BMA4C2	<b>Core–VIII-Linear Algebra</b>	4	4	25	75	100
	III		<b>Allied – IV(Theory only) (or)</b>	5	5	25	75	100
<b>Allied –IV(Theory cum Practical)</b>			4	3	15	60	75	
<b>Allied Practical - II</b>			2	2	20	30	50	
	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	<b>(2) Skill Based Subjects – II</b>	2	2	25	75	100
		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>-</b>	<b>-</b>	<b>700</b>
			<b>Total (Allied Theory cum Practical)</b>	<b>24</b>				<b>725</b>
	III	7BMA5C1	<b>Core–IX-Real Analysis</b>	4	6	25	75	100
	III	7BMA5C2	<b>Core–X-Statistics I</b>	4	5	25	75	100
	III	7BMA5C3	<b>Core–XI-Operations Research I</b>	4	5	25	75	100
	III	7BMAE1A/ 7BMAE1B	<b>Elective (I) - A) Graph Theory (or)</b>	5	5	25	75	100
			<b>B) Special Functions</b>					
	III	7BMAE2A/ 7BMAE2B	<b>Elective (II) – A) Numerical Analysis (or) B) Combinatorics</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>-</b>	<b>-</b>	<b>700</b>
	III	7BMA6C1	<b>Core – XII Mechanics</b>	4	6	25	75	100
	III	7BMA6C2	<b>Core – XIII Complex Analysis</b>	4	5	25	75	100
	III	7BMA6C3	<b>Core – XIV Statistics II</b>	4	5	25	75	100
	III	7BMA6C4	<b>Core – XV Operations Research II</b>	4	5	25	75	100
	III	7BMAE3A/ 7BMAE3B	<b>Elective – III A) Discrete Mathematics (or) B) Fuzzy Algebra</b>	5	5	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>-</b>	<b>-</b>	<b>700</b>
			<b>Grand Total</b>	<b>140</b>	<b>180</b>	<b>-</b>	<b>-</b>	<b>4100</b>

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