

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

M.Sc., MATHEMATICS – PROGRAMME STRUCTURE

Sem.	Course Code	Name of the Course	Cr.	Hrs./ Week	Max. Marks		
					Int.	Ext.	Total
I	7MMA1C1	Core-I – Algebra – I	5	6	25	75	100
	7MMA1C2	Core-II – Analysis – I	5	6	25	75	100
	7MMA1C3	Core – III –Differential Geometry	5	6	25	75	100
	7MMA1C4	Core –IV –Ordinary Differential Equations	5	6	25	75	100
	7MMA1E1 7MMA1E2 7MMA1E3	Elective-I: (Choose One out of Three) A) Number Theory (or) B) Calculus of Variations and Special Functions (or) C) Data Structures and Algorithms Theory and Practical	4	6	25	75	100
	Total		24	30	--	--	500
II	7MMA2C1	Core –V –Algebra – II	5	6	25	75	100
	7MMA2C2	Core –VI –Analysis – II	5	6	25	75	100
	7MMA2C3	Core-VII –Partial Differential Equations	5	6	25	75	100
	7MMA2C4	Core –VIII –Mechanics	5	6	25	75	100
	7MMA2E1 7MMA2E2 7MMA2E3	Elective-II:(Choose One out of Three) A) Graph Theory B) Applied Algebra C) Difference Equations	4	6	25	75	100
	Total		24	30	--	--	500
III	7MMA3C1	Core-IX –Complex Analysis	5	6	25	75	100
	7MMA3C2	Core-X –Topology – I	5	6	25	75	100
	7MMA3C3	Core-XI –Probability and Statistics	5	6	25	75	100
	7MMA3E1 7MMA3E2 7MMA3E3	Elective-III:(Choose One out of Three) A) Discrete Mathematics (or) B) Fluid Dynamics (or) C) Automata Theory	4	6	25	75	100
	7MMA3E4 7MMA3E5 7MMA3E6	Elective-IV:(Choose One out of Three) A) Fuzzy Mathematics (or) B) Stochastic Processes (or) C) Combinatorial Mathematics	4	6	25	75	100
		Total		23	30	--	--
IV	7MMA4C1	Core – XII –Functional Analysis	5	8	25	75	100
	7MMA4C2	Core – XIII –Operations Research	5	8	25	75	100
	7MMA4C3	Core – XIV –Topology II	5	7	25	75	100
	7MMA4E1 7MMA4E2 7MMA4E3	Elective-V:(Choose One out of Three) A) Advanced Statistics B) Stochastic Differential Equations C) Numerical Methods	4	7	25	75	100
		Total		19	30	--	--
	Grand Total		90	120	--	--	1900