

**Credit Distribution for PG Programme  
M.Sc Mathematics- Programme Structure**

**Semester - I**

Sem	Part	Course Code	Courses	List of Courses	T/ P	Credit	Hours/ week	Max. Marks		
								Int.	Ext.	Total
I	Part A	23MMA1C1	CC – 1	Algebraic Structures	T	4	5	25	75	100
		23MMA1C2	CC – 2	Real Analysis - I	T	4	5	25	75	100
		23MMA1C3	CC – 3	Ordinary Differential Equations	T	4	5	25	75	100
		23MMA1E1/ 23MMA1E2/ 23MMA1E3/	DSE- I	Number Theory and Cryptography / Graph Theory and Applications / Formal Languages and Automata theory	T	3	5	25	75	100
		23MMA1E4/ 23MMA1E5/ 23MMA1E6/	DSE- II	Mathematical Programming / Fuzzy sets and their Applications / Discrete Mathematics	T	3	5	25	75	100
	Part B	23MMASP1	SEC-I	Office Automation (Internal Paper)	P	2	3	25	75	100
		23MMAAP1	AECC-I	Mathematics for Competitive Examinations - I (Internal Paper)	P	2	2	25	75	100
Total					-	<b>22</b>	<b>30</b>	<b>325</b>	<b>375</b>	<b>700</b>

**Semester - II**

II	Part A	23MMA2C1	CC – 4	Advanced Algebra	T	4	5	25	75	100
		23MMA2C2	CC-5	Real Analysis - II	T	4	5	25	75	100
		23MMA2C3	CC-6	Partial Differential Equations	T	4	5	25	75	100
		23MMA2E1/ 23MMA2E2/ 23MMA2E3	DSE-III	Algebraic Geometry / Mathematical Statistics / Tensor Analysis and Relativity	T	3	5	25	75	100
		23MMA2E4/ 23MMA2E5/ 23MMA2E6	DSE-IV	Calculus of Variations and Integral Equations / Wavelets /Machine Learning and Artificial Intelligence	T	3	5	25	75	100
	Part B	23MMASP2	SEC-II	Mathematical Documentation using LATEX	P	2	3	25	75	100
		23MMAAP2	AECC-II	Mathematics for Competitive Examinations - II	P	2	2	25	75	100
Total					-	<b>22</b>	<b>30</b>	<b>325</b>	<b>375</b>	<b>700</b>

Semester - III											
III	Part A	23MMA3C1	CC-7	Complex Analysis	T	4	5	25	75	100	
		23MMA3C2	CC-8	Probability Theory	T	4	5	25	75	100	
		23MMA3C3	CC-9	Topology	T	4	5	25	75	100	
		23MMA3C4	CC-10	Industrial Statistics	T	3	5	25	75	100	
		23MMA3E1/ 23MMA3E2/ 23MMA3E3	DSE- V	Algebraic Number Theory / Fluid Dynamics / Stochastic Processes	T	3	5	25	75	100	
	Part B	23MMASP3	SEC-III	MATLAB an Introduction (Internal Paper)	P	2	3	25	75	100	
		23MMAAP3	AECC-III	Subjective Skills in Mathematics - I	P	2	2	25	75	100	
			23MMA3I		<b>Internship / Industrial Activity</b> (Carried out in Summer Vacation at the end of I year – 30 hours)		2	-	100		100
					Total	-	24	30	425	375	800
Semester - IV											
IV	Part A	23MMA4C1	CC-11	Functional Analysis	T	4	5	25	75	100	
		23MMA4C2	CC-12	Differential Geometry	T	4	5	25	75	100	
		23MMA4C3	CC-13	Mechanics	T	4	5	25	75	100	
		23MMA4PR	CC-14	Core Project with viva voce	--	3	4	50	150	200	
		23MMA4E1/ 23MMA4E2/ 23MMA4E3	Electiv e VI	Advanced Numerical Analysis / Algebraic Topology / Financial Mathematics	T	3	5	25	75	100	
Part B	23MMASP4	SEC-IV	Mathematical Economics (Internal Paper)	P	2	4	25	75	100		
	23MMAAP4	AECC- IV	Subjective Skills in Mathematics - II	P	2	2	25	75	100		
IV		--		Extension Activity	-	1	-	-	-	-	
				Total	-	23	30	450	450	900	

**TOTAL CREDITS: 91**