



Course of Study Code	Discipline Code	Discipline	Semester	Course Name	Course Type	Course Code	Course Details	L - T - P	Course Credit	Sem Credit	Internal Marks		End Sem Marks		Total Marks	Sem Marks			
											Practical	Theoretical	Practical	Theoretical					
MSC	MSCMATH	M.Sc. in Mathematics	I	Real Analysis	C	MSCMATHC101	CC - 1	4 - 0 - 0	4	20			10		40	50	250		
				Complex Analysis	C	MSCMATHC102	CC - 2	4 - 0 - 0	4				10		40	50			
				Abstract Algebra	C	MSCMATHC103	CC - 3	4 - 0 - 0	4				10		40	50			
				Ordinary Differential Equations and Special Functions	C	MSCMATHC104	CC - 4	4 - 0 - 0	4				10		40	50			
				Classical Mechanics and Calculus of Variations	C	MSCMATHC105	CC - 5	4 - 0 - 0	4				10		40	50			
			II	Topology	C	MSCMATHC201	CC - 6	4 - 0 - 0	4	20					10		40	50	250
				Linear Algebra and Principles of Operations Research	C	MSCMATHC202	CC - 7	4 - 0 - 0	4						10		40	50	
				Partial Differential Equations	C	MSCMATHC203	CC - 8	4 - 0 - 0	4						10		40	50	
				Numerical Analysis	C	MSCMATHC204	CC - 9	4 - 0 - 0	4						10		40	50	
				Choose from Pool of Minor Electives	MIE	See Pool	MIE - 1	4 - 0 - 0	4					See Pool		50			
			III	Functional Analysis	C	MSCMATHC301	CC - 10	4 - 0 - 0	4	24	5x2+10				10		40	50	300
				Mechanics of Continua	C	MSCMATHC302	CC - 11	4 - 0 - 0	4						10		40	50	
				Computer Aided Numerical Practical	C	MSCMATHC303	CC - 12	0 - 0 - 4	2					30		20		50	
				Advanced Complex Analysis I	MJE-1 MJE-2 (Any two)	MJE	MSCMATHMJE301	MJE - 1 & MJE-2	4 - 1 - 0						10		40	50x2=100	
				Advanced Functional Analysis I			MSCMATHMJE302	4 - 1 - 0						10		40			
				Advanced Topology			MSCMATHMJE303	4 - 1 - 0						10		40			
				Differential Geometry of Manifolds - I			MSCMATHMJE304	4 - 1 - 0						10		40			
				Field Theory			MSCMATHMJE305	4 - 1 - 0						10		40			
				Operator Theory I			MSCMATHMJE306	4 - 1 - 0						10		40			
				Biomathematics I			MSCMATHMJE307	4 - 1 - 0						10		40			
				Computational Fluid Dynamics I			MSCMATHMJE308	4 - 1 - 0						10		40			
				Fluid Mechanics I			MSCMATHMJE309	4 - 1 - 0						10		40			
				Mechanics of Viscous Fluid and Boundary Layer Theory I			MSCMATHMJE310	4 - 1 - 0						10		40			
				Operations Research I			MSCMATHMJE311	4 - 1 - 0						10		40			
				Quantum Mechanics I			MSCMATHMJE312	4 - 1 - 0						10		40			
			Theory of Elasticity I	MSCMATHMJE313			4 - 1 - 0		10		40								
			Choose from Pool of Minor Electives	MIE			See Pool	MIE - 2	4 - 0 - 0	4	See Pool		50						
			IV	Graph Theory			C	MSCMATHC401	CC-13	4 - 0 - 0	4	24	5+5=10				10		
				Integral Transforms & Integral Equations	C	MSCMATHC402	CC-14	4 - 0 - 0	4		10						40	50	
				Differential Geometry	C	MSCMATHC403	CC-15	4 - 0 - 0	4		10						40	50	
				Project Work	C	MSCMATHC404	CC-16	1 - 0 - 2	2	30						20		50	
				Advanced Complex Analysis II	MJE-3 MJE-4 (The course opted in Semester III will be continued)	MJE	MSCMATHMJE401	MJE - 3 & MJE-4	4 - 1 - 0		10						40	50+50=100	
				Advanced Functional Analysis II			MSCMATHMJE402	4 - 1 - 0		10						40			
				Algebraic Topology			MSCMATHMJE403	4 - 1 - 0		10						40			
				Differential Geometry of Manifolds II			MSCMATHMJE404	4 - 1 - 0		10						40			
				Semigroup Theory			MSCMATHMJE405	4 - 1 - 0		10						40			
				Operator Theory II			MSCMATHMJE406	4 - 1 - 0		10						40			
				Biomathematics II			MSCMATHMJE407	4 - 1 - 0		10						40			
				Computational Fluid Dynamics II			MSCMATHMJE408	4 - 1 - 0		10						40			
				Fluid Mechanics II			MSCMATHMJE409	4 - 1 - 0		10						40			
Mechanics of Viscous Fluid and Boundary Layer Theory II	MSCMATHMJE410	4 - 1 - 0					10		40										
Operations Research II	MSCMATHMJE411	4 - 1 - 0					10		40										
Quantum Mechanics II	MSCMATHMJE412	4 - 1 - 0		10				40											
Theory of Elasticity II	MSCMATHMJE413	4 - 1 - 0		10				40											
<b>Total</b>										<b>88</b>	<b>Total</b>				<b>1100</b>				
Minor Elective Offered by the Department of Mathematics for all other Departments across faculties																			
MSC	MSCMATH	M.Sc. in Mathematics	II	Operations Research	MIE	MSCMATHMIE201	MIE-1	4 - 0 - 0	4	NA		10		40	50	NA			
MSC	MSCMATH	M.Sc. in Mathematics	III	Computer Programming in C	MIE	MSCMATHMIE301	MIE-2	4 - 0 - 0	4	NA		10		40	50	NA			