

M.Sc.Curriculum(MATHEMATICS)

Course Category	Course No.	CourseTitle	Contact			Credit	Prerequisites
			Hours				
			L	T	P		
Core Courses (48 credits)	MA401	Real Analysis	3	1	0	4	None
	MA403	Linear Algebra	3	1	0	4	None
	MA405	Ordinary Differential Equations	3	1	0	4	None
	MA407	Probability Theory	3	1	0	4	None
	MA409	Numerical Analysis	3	0	0	3	None
	MA481	Numerical Analysis Lab	0	0	3	2	None
	MA402	Complex Analysis	3	1	0	4	None
	MA404	Abstract Algebra	3	1	0	4	None
	MA406	Partial Differential Equations	3	1	0	4	None
	MA408	Measure Theory & Integration	3	1	0	4	None
	MA410	Fluid Mechanics	3	0	0	3	None
	MA501	Integral Transforms And Integral Equations	3	1	0	4	None
	MA503	Functional Analysis	3	1	0	4	None
Electives (15 Credits)	BasketI(SemesterIII)						
	MA531	Graph Theory	3	0	0	3	None
	MA533	Mathematical Biology	3	0	0	3	None
	MA537	Topology	3	0	0	3	Fluid Mechanics
	MA539	Statistical Inference	3	0	0	3	Probability Theory
	MA541	Applied Dynamical Systems	3	0	0	3	Ordinary Differential Equations
	BasketII(SemesterIV)						
	MA532	Computational Fluid Dynamics	3	0	0	3	None
	MA534	Numerical Solutions to PDEs	3	0	0	3	Partial Differential Equations
	MA536	Numerical Linear Algebra	3	0	2	4	Linear Algebra
	MA538	Fourier Analysis	3	0	0	3	Real Analysis
	MA540	Stochastic Process	3	0	0	3	Probability Theory
	MA542	Operator Theory	3	0	0	3	Functional Analysis
	MA544	Optimal Control Theory	3	0	0	3	Ordinary Differential Equations
	MA546	Rings and Modules	3	0	0	3	Abstract Algebra
	MA548	Partial Differential Equations II	3	0	0	3	Partial Differential Equations

	MA550	Operations Research	3	0	0	3	None
	MA552	Advanced Number Theory	3	0	0	3	None
Electives shall include any other course of appropriate level offered in the Institute and recommended by the DAC							
Scientific Writing / Seminar (1 credit)	MA591	Scientific Writing & Seminar	0	0	2	1	None
Project Works (12 credits)	MA571	Project (Part I)	0	0	8	4	None
	MA572	Project (Part II)	0	0	16	8	None