

Tentative Master of Science (M.Sc.) Mathematics Program Curriculum

Cat.	Course Number	Course Title	L-T-P-D	Credits	Cat.	Course Number	Course Title	L-T-P-D	Credits
Semester 1					Semester 2				
C	MA511	Linear algebra	3-0-0-1	4	C	MA521	Abstract Algebra	3-0-0-1	4
C	MA512	Real analysis	3-0-0-1	4	C	MA522	Complex Analysis	3-0-0-1	4
C	MA513	Ordinary Differential equations	3-0-0-1	4	C	MA523	Partial Differential equations	3-0-0-0	3
C	MA514	Probability and Statistics	3-0-0-1	4	C	MA551	Topology	3-0-0-0	3
C	MA515	Programing Techniques	1-0-4-0	3	PE	xxxxxx	PE1	3-0-0-0	3
					PE	xxxxxx	PE2	3-0-0-0	3
Total				19	Total				20
Semester 3					Semester 4				
C	MA525	Functional analysis	3-0-0-0	3	PE	xxxxxx	PE5	3-0-0-0	3
PE	xxxxxx	PE3	3-0-0-0	3	PE	xxxxxx	PE6	3-0-0-0	3
PE	xxxxxx	PE4	3-0-0-0	3	OE	xxxxxx	OE2	3-0-0-0	3
OE	xxxxxx	OE1	3-0-0-0	3					
C	xxxxxx	Computational Methods	1-0-2-0	2					
P	MA6xx	Project	0-0-0-5	5	P	MA6xx	Project	0-0-0-10	10
Total				19	Total				19
Grand total									77

S.No.	Category	Course Category Title	Total Courses	Total Credits
1	C	Compulsory	11	38
2	PE	Program Electives	6	18
3	OE	Open Elective	2	6
4	P	Project	2	15
Total				77

List of Program Electives			
Course Number	Course Title	Course Number	Course Title
MA552	Wavelets analysis and Applications	MA611	Graphs and Matrices
MA553	Dynamical Systems	MA652	Stochastic Calculus
MA524	Optimization	MA670	Measure and Integration
MA524	Numerical Analysis	MA754	Algorithmic Graph Theory
MA5xx	Number Theory	MA755	Chaos Theory and its Applications
MA5xx	Calculus of Variation and Integral Equations	MA757	Numerical Partial Differential Equations
MA6xx	Statistical Inference		