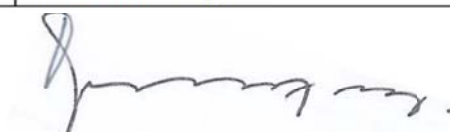


SCHOOL OF MATHEMATICAL SCIENCES

Year/Semester	Course No.	Credits	Course Name
1/Semester-I	M101	3	General Mathematics-I
	M141	2	Math Lab-I
1/Semester-II	M102	3	General Mathematics- II
	M142	2	Math Lab-II
2/ Semester-III	M201	4	Analysis-I
	M202	4	Algebra-I
	M203	4	Discrete Mathematics
	M241	4	Math Lab-III
	*****	4	Elective (Outside Stream)
2/Semester-IV	M204	4	Analysis-II
	M205	4	Algebra-II (Linear Algebra)
	M206	4	Probability Theory
	M207	4	Elementary Number Theory
	*****	4	Elective (Outside Stream)
3/Semester-V	M301	4	Analysis-III
	M302	4	Algebra-III (Rings and Modules)
	M303	4	Differential Equations
	M304	4	Topology
	M305	4	Statistics
	*****	4	Elective (Outside Stream)
3/Semester-VI	M306	4	Analysis-IV (Calculus of Several Variables)
	M307	4	Algebra-IV (Field Theory)
	M308	4	Complex Analysis
	M309	4	Optimization Theory
	M310	4	Differential Geometry
	*****	4	Elective (Outside Stream)
4/Semester-VII	M401	4	Functional Analysis
	M402	4	Representation of Finite Groups
	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	M498	8	Mathematics Project
4/Semester-VIII	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	M499	8	Mathematics Project
5/Semester-IX	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	M598	16	Mathematics Project



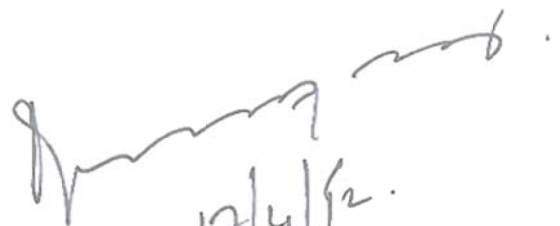
5/Semester-X	*****	4	Elective (Stream)
	*****	4	Elective (Stream)
	M599	16	Mathematics Dissertation

List of Compulsory courses

Year/Semester	Course No	Credits	Course Name
1/Semester-I	M101	3	General Mathematics-I
	M141	2	Math Lab-I
1/Semester-II	M102	3	General Mathematics- II
	M142	2	Math Lab-II
2/ Semester-III	M201	4	Analysis-I
	M202	4	Algebra-I
	M203	4	Discrete Mathematics
	M241	4	Math Lab-III
2/Semester-IV	M204	4	Analysis-II
	M205	4	Algebra-II (Linear Algebra)
	M206	4	Probability Theory
	M207	4	Elementary Number Theory
3/Semester-V	M301	4	Analysis-III
	M302	4	Algebra-III (Rings and Modules)
	M303	4	Differential Equations
	M304	4	Topology
	M305	4	Statistics
3/Semester-VI	M306	4	Analysis-IV (Calculus of Several Variables)
	M307	4	Algebra-IV (Field Theory)
	M308	4	Complex Analysis
	M309	4	Optimization Theory
	M310	4	Differential Geometry
4/Semester-VII	M401	4	Functional Analysis
	M402	4	Representation of Finite Groups
	M498	8	Mathematics Project
4/Semester-VIII	M499	8	Mathematics Project
5/Semester-IX	M598	16	Mathematics Project
5/Semester-X	M599	16	Mathematics Dissertation

List of Elective Courses (SMS)

Year/Semester	Course No.	Credits	Course Name
4/Semester-VIII/IX	M451	4	Advanced Complex Analysis
	M452	4	Advanced Functional Analysis
	M453	4	Advanced Linear Algebra
	M454	4	Advanced PDE
	M455	4	Advanced Probability and Stochastic Process
	M456	4	Algebraic Geometry
	M457	4	Algebraic Graph Theory
	M458	4	Algebraic Number Theory
	M459	4	Algebraic Topology
	M460	4	Algorithm
	M461	4	Commutative Algebra
	M462	4	Cryptology
	M463	4	Finite Field and Its Applications
	M464	4	Information and Coding Theory
	M465	4	Mathematical Logic
	M466	4	Measure Theory
	M467	4	Nonlinear Analysis
	M468	4	Operator Theory
	M469	4	Theory of Computation
5/Semester-IX/X	M551	4	Algebraic Computation
	M552	4	Analytic Number Theory
	M553	4	Classical Groups
	M554	4	Ergodic Theory
	M555	4	Harmonic Analysis
	M556	4	Lie Groups and Lie Algebras
	M557	4	Operator Algebras
	M558	4	Representations of Linear Lie Groups
	M559	4	Representation Theory of Compact Groups
	M560	4	Modular Forms of One Variable
	M561	4	Elliptic Curves


 17/4/22