



**Elective courses for M Sc Mathematics**

SNo	Seme	Course title	Credits	Credit Distribution				Type of Course											CIE (100)	SEE (100)	Remark
				lecture	Tutorial	Practical	Self Study	Core	Elective	Multi Disciplinary	SEC	VAC	AEC	Project	Minor	Internship	Prerequisite	Mandatory			
1	III	Number theory and Cryptography	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
2	III	Commutative Algebra	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
3	III	Differential Geometry and Tensors	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
4	III	Discrete Mathematics	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
5	III	Financial Mathematics	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
6	III	General theory of Relativity	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
7	III	Graph Theory	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
8	III	Modelling and Simulation	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
9	III	Operator Theory	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
10	III	Theory of Elasticity	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
11	IV	Advanced Fourier Analysis & wavelets	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
12	IV	Algebraic Coding Theory	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
13	IV	Representation Theory	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
14	IV	Computational Fluid Dynamics	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
15	IV	Computational Seismology	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
16	IV	Dynamics of rigid Bodies	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
17	IV	Non Linear Analysis	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
18	IV	Algebraic Number Theory	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
19	IV	Biomathematics	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
20	IV	Special theory of Relativity & Cosmology	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	
21	IV	Fractional Calculus	4	3	1	0	0	0	4	0	0	0	0	0	0	0	0	-	100	100	