FIRST SEMESTER

COURSE CODE	COURSE TITLE	NO. OF CREDITS	DISTRIBUTION OF MARKS		
CORE COURSES			SA	UE	TOTAL
MM - 101	Real Analysis - I	4	40	60	100
MM - 102	Theory of Metric Spaces	4	40	60	100
MM - 103	Theory of Measure and Integration	4	40	60	100
MM - 104	Abstract Algebra	4	40	60	100
MM - 105	Complex Analysis - I	2	20	30	50
MM - 106	Set Theory	2	20	30	50
MM - 107	C - Programming	2	25	25	50
MM - 108	Lab Course on MS-107	2	20	30	50
	TOTAL	24	245	355	600

SECOND SEMESTER

COURSE CODE	COURSE TITLE	NO. OF CREDITS	DISTRIBUTION OF MARKS		
			SA	UE	TOTAL
CORE COURSES					
MM - 201	Real Analysis - II	4	40	60	100
MM - 202	Complex Analysis - II	4	40	60	100
MM - 203	Functional Analysis	4	40	60	100
MM - 204	Linear Algebra	4	40	60	100
MM - 205	Techniques in Differential Equations	2	20	30	50
MM - 206	Introduction to MATLAB (Lab. Course)	2	25	25	50
Choice based open elective course (Students are required to opt one course from a list of courses offered by different departments of the university at the beginning of semester second.)		4	40	60	100
	TOTAL	24	245	355	600

THIRD SEMESTER

COURSE CODE	COURSE TITLE	NO. OF CREDITS	DISTRIBUTION OF MARKS		
CORE COURSES					
MM - 301	Topology	4	40	60	100
MM - 302	Advanced Topics in Complex Analysis	4	40	60	100
MM - 303	Theory of Operators	4	40	60	100
CHOICE BASED OPEN ELECTIVE COURSES					
Elective - 01 (Choose any one of the following four courses)					
MM - 304	Theory of Fields	4	40	60	100
MM - 305	Advanced Topics in Measure Theory	4	40	60	100
MM - 306	Numerical Methods for ODE & PDE	4	40	60	100
MM - 307	Differential Geometry				
Elective - 02 (Choose any one of the following four courses)					
MM - 308	Theory of Integral Equations	2	20	30	50
MM - 309	Mathematical Programming	2	20	30	50
MM - 310	Bio Mathematics	2	20	30	50
MM - 311	Soft Computing				
Elective - 03 (Choose any one of the following four courses)					
MM - 312	Fourier Analysis	2	20	30	50
MM - 313	Financial Mathematics	2	20	30	50
MM - 314	Graph Theory	2	20	30	50
MM - 315	Number Theory				
CORE COURSES					
MM - 316	Introduction to Communication Skills	2	20	30	50
MM - 317	Introduction to LATEX (Lab. Course)	2	25	25	50
	TOTAL	24	245	355	600

FOURTH SEMESTER

COURSE CODE	COURSE TITLE	NO. OF CREDITS	SA	UE	TOTAL
CHOICE BASED OPEN ELECTIVE COURSES					
Elective - 01 (Choose any one of the following four courses)					
MM - 401	Advanced Topics in Topology	4	40	60	100
MM - 402	Tensor Analysis and Riemanian Geometry	4	40	60	100
MM - 403	Algebraic Topology	4	40	60	100
MM - 404	Modeling and Simulation	4	40	60	100
Elective - 02 (Choose any one of the following four courses)					
MM - 405	Hardy & Bergman Spaces	4	40	60	100
MM - 406	Algebraic Geometry	4	40	60	100
MM - 407	Approximation Theory	4	40	60	100
MM - 408	Complex Dynamics	4	40	60	100
Elective - 03 (Choose any one of the following four courses)					
MM - 409	Applied Functional Analysis	4	40	60	100
MM - 410	Banach Algebras	4	40	60	100
MM - 411	Algorithmic optimisation	4	40	60	100
MM - 412	Advanced Topics in Functional Analysis	4	40	60	100
Elective - 04 (Choose any one of the following four courses)					
MM - 413	Module Theory				
MM - 414	Commutative Algebra	4	40	60	100
MM - 415	Wavelets and Applications	4	40	60	100
MM - 416	Variational Inequalities With Applications	4	40	60	100
CORE COURSES					
MM - 417	Project / Seminar	8	0	200	200
	TOTAL	24	195	405	600