

M.Sc. Mathematics
Revised CBCS - OBE - BASED Curriculum Structure
(For students admitted from 2021 onwards)

SEM	COURSE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
I	Core Course- I	Linear Algebra	6	5	EXT	25	75	100
	Core Course- II	Real Analysis	6	5	EXT	25	75	100
	Core Course- III	Advanced Numerical Analysis	6	4	EXT	25	75	100
	Core Course- IV	Optimization Techniques	6	5	EXT	25	75	100
	MBEC I	Graph Theory/ Theory of Automata	6	4	EXT	25	75	100
		Total Credits and Marks		30	23	-	--	-

SEM	COURSE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
II	Core Course-V	Topology	6	5	EXT	25	75	100
	Core Course-VI	Complex Analysis	6	5	EXT	25	75	100
	Core Practical	Object Oriented Programming in C++	6	4	EXT	40	60	100
	MBEC II	Differential Geometry / Fuzzy Mathematics	6	4	EXT	25	75	100
	NMEC*	Numerical and statistical methods	6	4	EXT	25	75	100
		Total Credits and Marks		30	22	-	-	-

****Offered by the Department to the students of other disciplines***

M.Sc. Mathematics
CBCS Course Structure
(For students admitted from 2017 onwards)

SEM	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
III	Core Course - VII	17 III PMA 7	Abstract Algebra	6	5	Ext	25	75	100
	Core Course- VIII	17 III PMA 8	Measure and Integration	6	4	Ext	25	75	100
	Core Course IX	17 III PMA 9	Stochastic Processes	6	4	Ext	25	75	100
	Core Course X	17 III PMA 10	Ordinary Differential equations	6	4	Ext	25	75	100
	Major Based Elective Course III :	17 III PMA ME 3/1 17 III PMA ME 3/2	Mechanics/ Algebraic Topology	6	4	EXT	25	75	100
			Total Credits and Marks	30	21	-	-	-	500

SEM	Course	Course Code	Title	HRS	CRD	Int/Ext	CIA	SE	Total
IV	Core Course- XI	17 IV PMA 11	Functional Analysis	6	5	Ext	25	75	100
	Core Course- XII	17 IV PMA 12	Fluid Dynamics	6	4	Ext	25	75	100
	Core Course XIII	17 IV PMA 13	Partial Differential Equations	6	4	Ext	25	75	100
		17 IV PMA PJ	Project	6	5	Ext	25	75	100
	Major Based Elective Course - IV	17 IV PMA ME 4/1 17 IV PMA ME 4/2	Calculus of Variations and Integral Equations / Optimization Techniques	6	4	Ext	25	75	100
			Total Credits and Marks	30	22				500
			Grand Total		88				2000