

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

SEM	PART	COURSE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
I	I	Language I	Course I	6	3	EXT	25	75	100
	II	English I	Course I	6	3	EXT	25	75	100
	III	Core Course I	Calculus	5	5	EXT	25	75	100
	III	Core Course II	Theory of equations and Vector Analysis	5	5	EXT	25	75	100
	III	First Allied Course I **	Accounting principles and practices – I/ Foundation Physics - I	4	3	EXT	25	75	100
	III	First Allied Practical I *	Practical I - Offered by Commerce/Physics Department	2	-	-	-	-	-
	IV	VBE	Value Based Education	2	2	INT	25	75	100
		Total Credits and Marks	30	21				600	

***Practical Examination will be conducted at the end of the II semester**

**Offered by Commerce/Physics Department

SEM	PART	COURSE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
II	I	Language II	Course II	6	3	EXT	25	75	100
	II	English II	Course II	6	3	EXT	25	75	100
	III	Core Course III	Analytical geometry of three dimensions	5	5	EXT	25	75	100
	III	Core Course IV	Numerical Methods	5	5	EXT	25	75	100
	III	First Allied Course II	Accounting principles and practices - II /	4	3	EXT	25	75	100
	III	First Allied Practical I	Practical I - Offered by Commerce/Physics Department	2	3	INT	40	60	100
	III	EVS	Environmental Studies	2	2	INT	25	75	100
			Total Credits and Marks	30	24				700

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

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
III	I	Language- III	17 III XT 3	Course-III	6	3	EXT	25	75	100
	II	English -III	17 III Y 3	Course-III	6	3	EXT	25	75	100
	III	Core Course V	17 III MA 5	Algebra I	5	5	EXT	25	75	100
	III	Core Practical I	17 III MA P1	Programming in C	4	3	INT	40	60	100
	III	Second Allied Course I	17 III MAA 5:1	Mathematical Statistics I	5	5	EXT	25	75	100
	IV	NMEC-I	17 III MA NE 1	<i>Offered by other Department</i>	2	2	INT	25	75	100
	IV	Skill Based Elective Course I	17 III SE 1/1	Combinatorics	2	2	INT	25	75	100
				Total Credits and Marks	30	23				700

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
IV	I	Language- IV	17 IV XT 4	Course-IV	6	3	EXT	25	75	100
	II	English-IV	17 IV Y 4	Course-IV	6	3	EXT	25	75	100
	III	Core Course-VI	17 IV MA 6	Algebra II	6	5	EXT	25	75	100
		Allied Practical - II	17 IV MA P 2	Excel Lab for Mathematical Statistics	2	2	INT	40	60	100
	III	Second Allied Course - II	17 IV MAA 5:2	Mathematical Statistics II	6	5	EXT	25	75	100
	IV	NMEC-II	17 IV MA NE 2	<i>Offered by other Department</i>	2	2	INT	25	75	100
	IV	Skill Based Elective Course II	17 IV MA SE 2/1	Quantative Aptitude	2	2	INT	25	75	100
					Total Credits and Marks	30	22			

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
V	III	Core Course-VII	17 V MA 7	Real Analysis	6	5	EXT	25	75	100
	III	Core Course-VIII	17 V MA 8	Statics	6	5	EXT	25	75	100
	III	Core Course-IX	17 V MA 9	Differential Equations and Fourier Series	6	5	EXT	25	75	100
	III	Core Practical II	17 V MA P 2	MATLAB	2	2	INT	40	60	100
	IV	Major Based Elective Course I	17 V MA ME 1/1 17 V MA ME 1/2	Graph Theory/ Discrete Mathematics	6	4	INT	25	75	100
		Skill Based Elective Course III	17 V MA SE 3/1 17 V MA SE 3/2	Financial mathematics/ applications of graph theory	2	2	INT	25	75	100
			17 V SSD	Soft Skill Development	2	2	INT	25	75	100
				Total Credits and Marks	30	25				700

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	Total
	III	Core Course-X	17 VI MA 10	Sequences and Series	6	5	EXT	25	75	100
		Core Course-XI	17 VI MA 11	Complex Analysis	6	5	EXT	25	75	100
		Core Course-XII	17 VI MA 12	Dynamics	6	5	EXT	25	75	100
	III	Major Based Elective Course II	17 VI MA ME 2/1 17 VI MA ME 2/2	Operations Research / Astronomy	6	4	EXT	25	75	100
	III	Major Based Elective Course III	17 VI MA ME 3/1 17 VI MA ME 3/2	Mathematical Modelling/ Number Theory	5	4	EXT	25	75	100
	V		17 VI GS	Gender Studies	1	1	INT	25	75	100
	V		17 VI EXT	Extension Activities	-	1	INT			100
				Total Credits and Marks	30	25				700
				Grand Total	120	140				4100