

DEPARTMENT – MATHEMATICS

■ M.Sc. Maths Course Structure

NEHRU MEMORIAL COLLEGE (AUTONOMOUS)
Post Graduate Programme Course Structure CBCS
(For the candidates admitted from 2019-2020 onwards)

Sem	Subject Code	Course	TITLE	HOURS	CREDIT	Int	Ext	TOTAL
I	19PM101	CC-I	Linear Algebra	6	5	25	75	100
	19PM102	CC-II	Real Analysis – I	6	5	25	75	100
	19PM103	CC-III	Ordinary Differential Equations	6	4	25	75	100
	19PM104	CC-IV	Integral Equations, Calculus of Variations and Fourier Transforms	6	4	25	75	100
	19PM105	CC-V	Classical Dynamics	6	5	25	75	100
	Total				30	23	125	375
II	19PM206	CC-VI	Algebra	6	5	25	75	100
	19PM207	CC-VII	Real Analysis – II	6	5	25	75	100
	19PM208	CC-VIII	Topology	6	5	25	75	100
	19PM209	CC-IX	Partial Differential Equations	6	4	25	75	100
		OEC	Open Elective Course	6	4	25	75	100
	Total				30	23	125	375
III	19PM311	CC-X	Complex Analysis	6	5	25	75	100
	19PM312	CC-XI	Differential Geometry	6	4	25	75	100
	19PM313	CC-XII	Measure and Integration	6	5	25	75	100
	19PM314	CEC-I	Elective Course I	6	4	25	75	100
	19PM315	CEC-II	Elective Course II	6	4	25	75	100
	Total				30	22	125	375
IV	19PM416	CC-XIII	Functional Analysis	5	5	25	75	100
	19PM417	CC-XIV	Stochastic Processes	5	4	25	75	100
	19PM418	CEC-III	Elective Course III	6	4	25	75	100
	19PM419	CEC-IV	Elective Course IV	6	4	25	75	100
	19PM420	CC-XV	PROJECT	8	5	25	75	100
	Total				30	22	125	375
GRAND TOTAL				120	90	500	1500	2000

***MAJOR BASED ELEECTIVE COURSES**

Course	Title of the Courses	Lecture Hours	Tutorial Hours	Credit	Prerequisite (Exposure)
EC-I	Fuzzy Mathematics	4	2	4	Set Theory
EC-I	Number Theory	4	2	4	NIL
EC-II	Graph Theory	4	2	4	NIL
EC-II	Numerical Analysis	4	2	4	NIL
EC-III	Optimization Techniques	4	2	4	NIL
EC-III	Probability Theory	4	2	4	NIL
EC-IV	Coding theory	4	2	4	NIL
EC-IV	Fluid dynamics	4	2	4	Dynamics (UG level)

***** EXTRA CREDIT COURSES OFFERED BY THE DEPARTMENT (OPTIONAL)**

Semester	Title	Hours/Week	Credits	Ext
I	R Programming Lab	3	3	100
II	Mini Project	-	3	100
III	Any online certified course (Approved by BOS Chairman/HOD)	-	3	100
IV	Comprehensive Mathematics	-	3	100