NEHRU MEMORIAL COLLEGE (AUTONOMOUS)

Post Graduate Programme– MSc Mathematics Course Structure CBCS
(For the candidates admitted from 2019-2020 onwards)

Sem	Subject Code	TITLE of the Course	HOURS	CREDIT	Int	Ext	TOTAL
I	19PM101	CC-I 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**	500
II	19PM206	CC-VI LinearAlgebra	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	6	4	25	75	100
	Total		**30**	**23**	**125**	**375**	500
III	19PM310	CC-X Complex Analysis	6	5	25	75	100
	19PM311	CC-XI Differential Geometry	6	4	25	75	100
	19PM312	CC-XII Measure and Integration	6	5	25	75	100
	19PM313E	CEC-I-	6	4	25	75	100
	19PM313E	CEC-II-	6	4	25	75	100
	Total		**30**	**22**	**125**	**375**	**500**
IV	19PM414	CC-XIII Functional Analysis	5	5	25	75	100
	19PM415	CC-XIV Stochastic Processes	5	4	25	75	100
	19PM416E	CEC-III-	6	4	25	75	100
	19PM416E	CEC-IV-	6	4	25	75	100
		CC-XV -PROJECT	8	5	25	75	100
	Total		**30**	**22**	**125**	**375**	**500**
GRAND TOTAL			**120**	**90**	**500**	**1500**	**2000**

EXTRA CREDIT COURSES OFFERED BY THE DEPARTMENT(OPTIONAL)

SEMESTER	TITLE	Hours/Week	CREDIT	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

CORE COURSES (CC)

Code	Title of the Courses	Lecture Hours	Tutorial Hours	Credit	Prerequisite (Exposure)
CC-I	Algebra	4	2	5	NIL
CC-II	Real Analysis – I	4	2	5	NIL
CC-III	Ordinary Differential Equations	4	2	4	NIL
CC-IV	Integral Equations, Calculus of Variations and Fourier Transforms	4	2	4	NIL
CC-V	Classical Dynamics	4	2	5	NIL
CC-VI	LinearAlgebra	4	2	5	CC-I
CC-VII	Real Analysis – II	4	2	5	CC-II
CC-VIII	Topology	4	2	5	CC-II
CC-IX	Partial Differential Equations	4	2	4	CC-IV
CC-X	Complex Analysis	4	2	5	CC-II & CC-VII
CC-XI	Differential Geometry	4	2	4	CC-II & CC-VII
CC-XII	Measure and Integration	4	2	5	CC-II & CC-VII
CC-XIII	Functional Analysis	3	2	5	CC-II, CC-VIII & CC-XII
CC-XIV	Stochastic Processes	3	2	4	Probability & Statistics UG level
CC-XV	Project Work	-	-	5	CCI-CCXIV

CORE ELEECTIVE COURSES (CEC)

Code	Title of the Courses	Lecture Hours	Tutorial Hours	Credit	Prerequisite (Exposure)
CEC3A	Number Theory	4	2	4	NIL
CEC3B	Fuzzy Mathematics	4	2	4	Set Theory
CEC3C	Graph Theory	4	2	4	NIL
CEC4A	Numerical Analysis	4	2	4	NIL
CEC4B	Optimization Techniques	4	2	4	NIL
CEC4C	Probability Theory	4	2	4	NIL
CEC4D	Coding theory	4	2	4	NIL
CEC4E	Fluid dynamics	4	2	4	Dynamics (UG level)

OPEN ELEECTIVE COURSES (OEC)

(Courses offered to other Departments)

Code	Title of the Courses	Lecture Hours	Tutorial Hours	Credit	Prerequisite (Exposure)
OEC1	Mathematical Modeling and Simulation	4	2	4	+2 Level Mathematics
OEC2	Statistics	4	2	4	+2 Level Mathematics