

**DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCES
JAMIA MILLIA ISLAMIA, NEW DELHI**

M.Sc. (Mathematics and Computing)

(As per NEP-2020)

with effect from 2026-27

Semester-I: Course work

Semester-I (2 -year PG)	Papers	Credits
	Advanced Real Analysis	4
	Advanced Linear Algebra	4
	Numerical Analysis	4
	Classical Mechanics	4
	Data Structures and Algorithms	4
	Theory of Differential Equations and Applications	4
Total Credits		24

Semester-II: Course work

Semester-II (2- year PG)	Papers	Credits
	Topology	4
	Abstract Algebra	4
	Advanced Complex Analysis	4
	Differential Geometry	4
	Data Science using Python (3L+2P)	4
Total Credits		20

Semester-III: Course work

Semester-III (2- year PG)	Papers	Credits
	Functional Analysis	4
	Differentiable Manifolds	4
	Artificial Intelligence and Machine Learning	4
Semester-I (1- year PG)	Elective:	4
	Wavelet Analysis	
	Graph Theory and Applications	
	Operations Research	
	Research Methodology	4
	Lab (Machine Learning)	2
Total Credits		22

Semester-IV: Research

Semester-IV (2- year PG)	Nature of Course	Credits
	P.G. Thesis/ Project Report/ Dissertation/ Research Paper	16
Semester-II (1- year PG)	P.G. Thesis (Viva)/ Presentation	4
Total Credits		20