

M.SC. MATHEMATICS PROGRAMME (CBCSPG) FROM THE ACADEMIC YEAR 2024-2025.

The syllabus for two years M.Sc. Mathematics course consists of hard-core, soft-core papers and lab component. The syllabus is framed so to meet the professional needs both in teaching and corporate field. Also, syllabus is well combined with pure and applied Mathematics.

The following shall be the Courses of study in the four semesters M.Sc. Mathematics Programme (CBCSPG) from the academic year 2024-2025.

Hard Core Courses:

First Semester	Second Semester
Algebra - I	Algebra - II
Linear Algebra- I	Real Analysis - II
Real Analysis - I	Topology

Third Semester	Fourth Semester
Complex Analysis - I	Project Work
Measure and Integration	Complex Analysis – II
Multivariate Calculus and Geometry	Functional Analysis

Soft Core Courses:

First Semester	Second Semester
Numerical Analysis	Linear Algebra - II
Theory of Combinatorics	Ordinary Differential Equations
Practical -I	Practical - II

Third Semester	Fourth Semester
Advanced Numerical Analysis	Partial Differential Equations
Commutative Algebra	Advanced Topology
Graph Theory	Algebraic Number Theory
Lattice Theory	Calculus of Variations and Integral Equations
Fluid Mechanics	Mathematical Statistics
Applied Algebraic Coding Theory	Computational Geometry
Operations Research	Cryptography
Design and Analysis of Algorithms	Finite Element Method with Applications

Open Elective Courses:

Second Semester	Third Semester
Discrete Mathematics and Applications.	Differential Equations and Applications
	Mathematical Finance