Courses (M.Sc. Mathematics)

Algebra

Linear Algebra

Abstract Algebra (Basic Algebra, Algebra – I & II)

Algebraic Geometry

Commutative Algebra

 Representation Theory of Finite Groups

Differential Equations

Ordinary Differential Equations (ODE)

Partial Differential Equations (PDE)

Mathematical Methods

Dynamical Systems

 Modern Theory of PDE

 Numerical Methods for PDE

 Mathematical Theory of Finite Element

Calculus , Analysis & Topology

Real & Complex Analysis,Theory of analytic functions

Measure and Advanced Probability Theory

Fourier Analysis and Applications

General, Algebraic and Differential Topology

Multivariable Calculus

Differential Geometry

Functional Analysis

Operators on Hilbert Spaces

Spectral Approximation

 Nonlinear Analysis

Number Theory

Basic Number Theory

Algebraic Number Theory

Analytic Number Theory

Financial Mathematics

Optimization

Numerical Analysis

Combinatorics

 Introduction to Derivative Pricing

Computer : Computer Programming and Utilization (**C++**)