COURSE OUTCOMES (COs)
B.Sc. Mathematics (Honours)

CO1.1: Solve differential equations and apply them to mathematical models.
CO1.2: Analyze three-dimensional geometry problems involving lines, planes, and spheres.
CO2.1: Understand group structures and apply group theory concepts.
CO2.2: Apply real analysis concepts such as sequences, series, and convergence.
CO3.1: Analyze ring structures, ideals, and polynomial rings.
CO3.2: Apply advanced real analysis concepts including continuity and integration.
CO3.3: Solve matrix and linear system problems using algebraic methods.
CO4.1: Apply vector space and linear transformation concepts.
CO4.2: Use vector calculus techniques in physical and geometrical problems.
CO4.3: Formulate and solve optimization problems using linear programming.
CO5.1: Analyze special functions and their applications.
CO5.2: Apply Laplace transforms or automata theory concepts.
CO5.3: Solve numerical problems using MATLAB or numerical methods.
CO6.1: Apply integral transforms or statistical analysis using R.
CO6.2: Implement advanced numerical or computational methods using Python.