

Program Specific Outcomes (PSOs)

B.Sc. (Mathematics) – Major

PSO-1: Mathematical Knowledge and Foundations

Demonstrate strong knowledge of core areas of mathematics such as algebra, analysis, geometry, linear algebra, differential equations, vector calculus, and special functions, and apply theoretical concepts accurately.

PSO-2: Problem Solving and Analytical Skills

Analyze and solve mathematical problems logically and systematically using appropriate analytical, algebraic, numerical, and computational techniques.

PSO-3: Abstract and Logical Reasoning

Apply abstract thinking and logical reasoning in advanced topics including group theory, ring theory, linear algebra, real analysis, and automata theory.

PSO-4: Computational and Numerical Skills

Use numerical methods, programming tools (Python, MATLAB, R) and computational techniques to solve real-world mathematical, scientific, and engineering problems.

PSO-5: Application of Mathematics

Apply mathematical concepts to model, analyze, and interpret real-life problems in areas such as optimization, statistics, operations research, data analysis, and physical sciences.

PSO-6: Use of Modern Mathematical Tools

Demonstrate proficiency in modern software tools and programming environments for visualization, simulation, data analysis, and mathematical computation.

PSO-7: Research and Higher Studies Readiness

Develop the ability to understand advanced mathematical concepts, read mathematical literature, and pursue higher studies, research, or competitive examinations.

PSO-8: Professional and Interdisciplinary Skills

Communicate mathematical ideas effectively through presentations, reports, and projects, and work independently or collaboratively in academic, research, or industry-oriented environments.