



BACHELOR OF SCIENCE IN MATHEMATICS

On the successful completion of B.Sc. Mathematics programme, the students will

PSO1: Understand the advanced concepts of Classical Algebra, Differential and Integral Calculus and acquire skills of applications of Differential and Integral calculus.

PSO2: Understand the basic concepts of Three Dimensional Geometry and acquire the skills of applying them.

PSO3: Study the basic Principles of Abstract Mathematics and determine the solutions of Differential Equations and their applications.

PSO4: Find approximate solutions to algebraic and transcendental equations and acquire the knowledge of Transformation Techniques and solve simultaneous equations arising out of real life situations using LPP techniques.

PSO5: Learn the concepts of Modern Algebra and analyze the properties of Real and Complex numbers.

PSO6: Study various statistical models and the algebra of Matrices and apply them to Vector spaces.

PSO7: Acquire the knowledge on Numbers, in particular, Prime Numbers.

PSO8: Get deep knowledge about Statics and Dynamic, thereby know where they are applied to reach optimal solution to complex decision making problems using OR concepts.



MASTER OF SCIENCE IN MATHEMATICS

On the successful completion of M.Sc. Mathematics programme, the students will

PSO1: Understand the advanced concepts in Group Theory and realize how abstract concepts can be understood through concrete examples by studying Real Analysis.

PSO2: Apply different statistical measures for testing the hypothesis and verify the validity of an argument by applying Propositional Logic.

PSO3: Learn the concept of Dual spaces and Inner product spaces.

PSO4: Understand the concept of Riemann integration and know that integration and differentiation are inverse operations.

PSO5: Study the fundamental features of Topology.

PSO6: Get the thorough knowledge of Galois Theory.

PSO7: Acquire knowledge of Measure Theory and get skills of integrating functions without limit process.

PSO8: Know basic Principles of Graph Theory and learn algorithms for solving real life problems using graph models. Know the decision making using optimization Techniques. Derive the equations of motions using different approaches. Know about Cryptography.

PSO9: Solve different types of partial differential equations and determine the solutions of the initial value problems of differential equations.

PSO10: Have a deep study of classes of functions in Functional Analysis.



MASTER OF PHILOSOPHY IN MATHEMATICS

On successful completion of the M.Phil. Mathematics programme, the students will

PSO1: Learn advanced research oriented mathematical subject namely, Advanced Algebra.

PSO2: Be trained to write research articles in Mathematics.

PSO3: Be aware of the Impact Factor of journals, awards and prizes for mathematicians.

PSO4: Gain knowledge on Research Topics in Graph Theory, Functional Analysis and Approximation Theory.