

DEPARTMENT OF MATHEMATICS

Programme Title: M.Sc. Mathematics

Programme Outcomes

- PO1: To enhance mathematical and computational strategies in order to solve mathematical problems.
- PO2: To construct logical arguments for solving the abstract or applied mathematical problems based on ethical principles.
- PO3: To identify accurate solutions for the society oriented problems via various mathematical models.
- PO4: To demonstrate various specialised areas of advanced mathematics and its applications using modern tools.
- PO5: To know the use of computers both as an aid and as a tool to study problems in Mathematics.
- PO6: To present papers in seminars and conferences in order to defend their mathematical skills on various topics in the curriculum.
- PO7: To train the students as professional mathematicians either in academia or elsewhere.
- PO8: To inculcate the knowledge of formulation and apply the mathematical concepts which are suitable for real life applications.
- PO9: To prepare the students for eligibility tests affirmed by UGC like CSIR-NET and SET.

Programme Specific Outcomes

- PSO1: To develop the mathematical skills and knowledge for their intrinsic beauty, for proficiency in analytical reasoning, utility in modeling and solving the real world problems by using the concepts of Algebra, Analysis, Dynamics, Differential Equations, Geometry, Topology, Operations Research, Fuzzy Sets & Fuzzy Logic, Fluid Dynamics and Matlab.
- PSO2: To develop computational and logical thinking and the habit of making conclusions based on quantitative information.
- PSO3: To work efficiently and constructively as a part of a team and do project individually.
- PSO4: To do projects related to emerging Social and Environmental issues.
- PSO5: To join in various Universities and Institutions like IMSC, IISc, etc., in order to do summer research projects on Algebra, Analysis, Topology, Mechanics, Fluid Dynamics, Differential Equations, Number Theory, Matlab, Differential Geometry and Fuzzy sets.