**M. Sc Mathematics Program Outcomes**

PO 1 Science knowledge: Apply mathematics knowledge and mathematics specialties to the solution of challenging scientific issues.

PO 2 Problem Analysis: Analyze and understand the theoretical and practical data at various workplaces.

PO 3 Design/ Development of solutions: Design a system, component, or process to meet the desired needs within realistic constraints such as economic, environmental, health and safety, and sustainability.

PO 4 Conduct investigations of complex problems: Develop the capacity to analyze complicated issues and offer workable answers by applying applied research knowledge.

PO 5 Modern tool usage: Identifying, formulating, and resolving scientific issues with contemporary methods and technologies.

PO 6 Mathematics and Society: Obtain the wide education required to comprehend how scientific solutions impact the local, national, international, economic, environmental, and societal contexts.

PO 7 Environment and Sustainability: Understand the environmental damage and develop environmental friendly and sustainable scientific practices using the solutions in the societal and environmental context.

PO 8 Ethics: Develop an ethical-moral value system and cater to the community needs in a voluntary manner by the judicious use of scientific principles

PO 9 Multidisciplinary Approach: Develop a multidisciplinary approach and function on multidisciplinary teams.

PO 10 Communication: Develop various communication skills such as listening, speaking, writing, etc. which will help in the effective expression of ideas and views.

PO 11 Project Management and Finance: Apply scientific knowledge and management skills to manage projects in industries, research and development institutions, public sector units, higher education and in academia.

PO 12 Life-long Learning: Demonstrate effective usage of existing resources at workplaces and raise awareness of the importance of life-long learning