

**MANONMANIAM SUNDARANAR UNIVERSITY**  
**DEPARTMENT OF MATHEMATICS**

**M.Sc. Mathematics**

**Programme Outcomes**

PO1: Problem Solving Skill

*Apply knowledge of Management theories and Human Resource practices to solve business problems through research in Global context.*

PO2: Decision Making Skill

*Foster analytical and critical thinking abilities for data-based decision-making.*

PO3: Ethical Value

*Ability to incorporate quality, ethical and legal value-based perspectives to all organizational activities.*

PO4: Communication Skill

*Ability to develop communication, managerial and interpersonal skills.*

PO5: Individual and Team Leadership Skill

*Capability to lead themselves and the team to achieve organizational goals.*

PO6: Employability Skill

*Inculcate contemporary business practices to enhance employability skills in the competitive environment.*

PO7: Entrepreneurial Skill

*Equip with skills and competencies to become an entrepreneur.*

PO8: Contribution to Society

*Succeed in career endeavors and contribute significantly to society.*

PO 9 Multicultural competence

*Possess knowledge of the values and beliefs of multiple cultures and a global perspective.*

PO 10: Moral and ethical awareness/reasoning

*Ability to embrace moral/ethical values in conducting one's life.*

## Programme Specific Outcomes

### PSO1 – Placement

*To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.*

### PSO 2 – Entrepreneur

*To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.*

### PSO3 – Research and Development

*Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.*

### PSO4 – Contribution to Business World

*To produce employable, ethical and innovative professionals to sustain in the dynamic business world.*

### PSO 5 – Contribution to the Society

*To contribute to the development of the society by collaborating with stakeholders for mutual benefit.*

**MANONMANIAM SUNDARANAR UNIVERSITY**  
**DEPARTMENT OF MATHEMATICS**  
**Integrated M.Sc. Mathematics**  
**Programme Outcomes**

**PO1: Disciplinary Knowledge:** *Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.*

**PO2: Critical Thinking:** *Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.*

**PO3: Problem Solving:** *Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.*

**PO4: Analytical Reasoning:** *Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples and addressing opposing viewpoints.*

**PO5: Scientific Reasoning:** *Ability to analyse, interpret and draw conclusions from quantitative / qualitative data; and critically evaluate ideas, evidence, and experiences from an open minded and reasoned perspective.*

**PO6: Self-directed & Lifelong Learning:** *Ability to work independently, identify and manage a project. Ability to acquire knowledge and skills, including "learning how to learn", through self-placed and self-directed learning aimed at personal development, meeting economic, social and cultural objectives.*

## **Programme Specific Outcomes**

**PSO1:** *Acquire good knowledge and understanding, to solve specific theoretical & applied problems in different area of mathematics & statistics.*

**PSO2:** *Understand, formulate, develop mathematical arguments, logically and use quantitative models to address issues arising in social sciences, business and other context /fields.*

**PSO3:** *To prepare the students who will demonstrate respectful engagement with other's ideas, behaviours, beliefs and apply diverse frames of references to decisions and actions. To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.*