B. Sc. Mathematics

Vision

To develop globally competent mathematicians through industry-linked, research-focused, technology-enabled seamless higher education in Mathematics and mould the young minds to serve for the betterment of the society with love and justice.

Mission

- Offer Competent and comprehensive curriculum and conducive environment for holistic development.
- Inculcate passion for research and perform widely recognized outstanding research in the fields of Mathematics, Statistics and the interdisciplinary areas
- Collaborate globally, construct industry – academia link and contribute for nation building

Programme Outcomes

1. Analyze problems and formulate appropriate mathematical models in various areas of Mathematics.
2. PO2: Demonstrate knowledge and understanding of pure and applied Mathematics in other disciplines of basic sciences, where the problem-solving techniques are required.
3. Express thoughts and ideas of mathematical statements which are validated by establishing the proofs using rigorous mathematical arguments.
4. Employ confidently the knowledge of mathematical software and tools for treating the complex mathematical problems and investigate scientific data.
5. Create mathematical models of empirical or theoretical phenomena in domains such as physical, natural, or social science.
6. Analyze given quantitative and qualitative data by employing different measures, draw conclusions using appropriate mathematical solving methods and communicate effectively.
7. Demonstrate critical thinking, creativity and lifelong learning necessary for various employment demands.
8. Make rigorous mathematical arguments, including how to prove and disprove conjectures.
9. Practice moral and ethical values in all walks of life and meet community expectations.

Programme Specific Outcomes

1. Identify, determine, evaluate and effectively solve the practical problems using Mathematical arguments in a logical and technical manner.
2. Exhibit knowledge and understanding in o areas of Mathematics, Statistics, computational packages and programming languages.
3. Critically analyze and solve real world problems that are expressed in terms of equations, numbers, algebraic structures, etc.
4. Formulate and use quantitative models to address problems arising in social science, business and other areas of science and technology.

M. Sc. Mathematics

Vision

To develop globally competent mathematicians through industry-linked, research-focused, technology-enabled seamless higher education in Mathematics and mould the young minds to serve for the betterment of the society with love and justice.

Mission

- Offer Competent and comprehensive curriculum and conducive environment for holistic development.
- Inculcate passion for research and perform widely recognized outstanding research in the fields of Mathematics, Statistics and the interdisciplinary areas
- Collaborate globally, construct industry – academia link and contribute for nation building

Programme Outcomes

1. Analyze and apply the mathematical concepts in all fields leading to new research outcomes.
2. Solve the real-world problems that demand logical thinking and reasoning.
3. Demonstrate knowledge and understanding of mathematical concepts and establish proofs in terms of mathematical arguments
4. Identify, formulate and analyze the complex problems using the principles of Mathematics.
5. Represent mathematical information numerically, symbolically, graphically, verbally and visually using appropriate technology.
6. Exercise abstract reasoning and make ideas precise by formulating them mathematically.
7. Demonstrate critical thinking, leadership qualities through self-directed and life-long learning.
8. Collaborate with people across the world productively and contribute effectively to the scientific community.
9. Practice moral and ethical values with the responsibility of fulfilling the civic duty as per the societal expectations.

Programme Specific Outcomes

1. Comprehend and write effective reports and design documentation related to Mathematical research and literature and make effective presentations.
2. Investigate and solve Mathematical problems of statistics, optimization techniques required in science, technology, business and industry, and illustrate the solutions using symbolic, numeric, or graphical methods.
3. Integrate Mathematical knowledge and computational skills appropriate to professional activities.
4. Exhibit innovative skills to work effectively in the fields of Finance, Science and Technology and interdisciplinary domains.