Department of Mathematics

B.Sc. Mathematics

Students will be able to

- Discuss the foundation and history of mathematics, perform computations in calculus, Trigonometry, Algebra and number theory.
- Apply analytical and theoretical skills and mathematical ideas to solve mathematical problems and to model real-world problems.
- Recognize a variety of examples where mathematics or statistics helps accurately explain abstract or physical phenomena.
- Utilize technology to address mathematical ideas, and mathematical programming using C++ and statistical calculations.
- Demonstrate an ability to use working knowledge of mathematics in their careers and progress to higher education.

M.Sc. Mathematics

Students will be able to

- Describe the origin of Graph Theory, different types of graph theory and advanced operations on graphs.
- Discuss the topology in mathematics, differential equations, numerical analysis and fuzzy analysis and their applications to perform mathematical calculations.
- Recognize and appreciate the connections between theory and applications and mathematical methods in Biology and Python programming.
- Apply quantitative methods such as the modern probability theory, measure theory fluid dynamics and integral equations to solve mathematical and real world problems.
- Create employment prospects through application of mathematical concepts and work independently and be a perpetual learner.

M.Phil Mathematics

Students will be able to

- Analyse and judge the validity of rigorous mathematical arguments and carry out research in mathematical problems and formulate complete, concise, and correct mathematical proofs.
- Utilize a variety of teaching techniques and classroom strategies to positively influence student learning and also for one's own development.
- Transcribe mathematical ideas, terminology and notation as a report and oral also make oral presentations.
- Apply domain knowledge, conceptual and practical knowledge of mathematics in various fields and real time situations and execute a research study ethically.
- Conceive employability and professional development through problem solving skills and become a continual learner.