Bsc mathematics

PO

PO-1 impact analytical and problem solving skills to enhance a broad range of real life issues

PO-2 collect, analyze and organize quantitative data to evaluate and critique conclusions

PO-3 understand and demonstrate the principles of Calculus, Algebra, Geometry, Analysis, Mechanics, Trigonometry, Statistics, Sequences and Series and Operations Research

PO-4 apply critical thinking skills to solve complex real world problems

PO-5 crack various competitive examinations like TNPSC, Bank exams, TET, SSC, RRB etc

PSO

PSO-1 imbibe the fundamental knowledge, skills and competencies in mathematics

PSO-2 gain necessary computer skills and knowledge to excel in professional career in related disciplines

PSO-3 develop a critical appreciation of the use of information and communication technology in mathematics

PSO-4 approach challenges with curiosity, critical thinking and creativity

PSO-5 participate in life-long learning process in different disciplines of mathematics

COURSE OUTCOMES

REAL ANALYSIS AND COMPLEX ANALYSIS

CO-1 Understand the sequences and their convergence, Cauchy and monotone sequences and sandwich lemma

CO-2 Determine the concept of continuity, limits and uniform continuity

CO-3 Analyze the derivatives of the real valued functions and higher orders

CO-4 Evaluate convergence of Infinite Series

CO-5 Analyze the concept of Darboux integrability and fundamental theorems of calculus

NUMERICAL METHODS

CO-1 Learn the concept of solving quadratic, exponential, logarithmic equations

CO-2 Determine the concept of problem solving ability in finite differences

CO-3 Study the characteristics of finite difference operators

CO-4 Acquire knowledge in central differences and interpolation formulae

CO-5 Make use of different methods to solve homogeneous and nonhomogeneous linear difference equations

DISCRETE MATHEMATICS

CO-1 Understand the statements & notations, Connectives, tautological implications and other connectives

CO-2 Study about the Normal forms, the theory of inference for the statement and predicate calculus

CO-3 Demonstrate the fundamental concepts of Trees, spanning trees , Rooted and binary trees

CO-4 Analyse about Grammars and languages and discuss about computability theory

CO-5 Evaluate the concepts of Lattices and Boolean algebra with their properties and the representation and minimization of Boolean Functions