

The mission of the under graduate Mathematics Program is to give students the mathematical skills and literacy required by their chosen field of study. The following are the program specific outcomes of undergraduate mathematics Course.

PSO 1: Students will simplify and evaluate algebraic expressions.

PSO 2: Students will solve nonlinear equations using analytic method

PSO 3: Students will use mathematics concepts in real world situations.

PSO 4: Students will simplify and perform operations with nonlinear expressions.

PSO 5: Students will demonstrate the ability to solve financial math problems.

PSO 6: Students will demonstrate the ability to solve exponential growth and decay problems.

PSO 7: Students will demonstrate the ability to solve problems in probability and statistics

PSO 8: Students will understand numbers, way of representing numbers, relationships among numbers, and number systems.

PSO 9: Students will use mathematical models to represent and understand quantitative relationships.

PSO 10: Students will communicate their mathematical thinking coherently and clearly to students, peers, and others.

PSO 11: Students will relate geometric ideas to number and measurement ideas.

PSO 12: Students will demonstrate the ability to algebraically analyze functions.

PSO 13: Students will demonstrate the ability to graphically analyze functions.

PSO 14: Students will demonstrate the ability to model real-life scenarios using functions.

PSO 15: Students will be able to solve Polar Equations.

PSO 16: Students will demonstrate the ability to use statistical concepts to analyze "real world" issues.

PSO 17: Compute limits of functions as the independent variable approaches some finite value or infinity.

PSO 18: Interpret the derivative of a function graphically, numerically and analytically.

PSO 19: Students will gain the ability to evaluate indefinite and definite integrals by selecting and correctly applying appropriate integration techniques(s).

PSO 20: Students will be able to develop an appropriate integral form to solve a specific applied problem in geometry, physics, or probability.

PSO 21: Students will be able to utilize appropriate theory and computational techniques to construct Taylor series with its interval of convergence for use in a variety of applications such as approximating values of a function, creating series for new functions, and studying the behavior of a function.

PSO 22: Students will use Boolean algebra to design and simplify logic circuits.

PSO 23: Students will demonstrate the ability to compute derivatives and integrals of real valued and vector valued functions of several variables.

PSO 24: Students will demonstrate the ability to interpret geometrically the derivatives and integrals of real valued and vector valued functions of several variables.

PSO 25: Students will demonstrate the ability to apply the techniques of multivariable calculus to problems in mathematics, the physical sciences, and engineering.

PSO 26: Students will demonstrate the ability to formulate models of natural phenomena using differential equations.

PSO 27: Students will demonstrate the ability to solve a variety of differential equations analytically and numerically.

PSO 28: Students will demonstrate the ability to interpret a differential equation qualitatively.

PSO29: Apply mathematical concepts and principles to perform computations.

PSO30: Apply Mathematics to solve various real life problems.

PSO31: Create, use and analyze graphical representations of mathematical relationships.

PSO32: Communicate mathematical knowledge and understanding.

PSO33: Apply technology tools to solve problems.

PSO34: Perform abstract mathematical reasoning.

PSO35: Learn independently.