Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

Course	Course Outcomes
B.Sc.I AY 2023-24 Revised as per NEP	
Calculus	1. Evaluate the limit and examine the continuity of a function at a point. 2. Understand the consequences of mean value theorems for differentiable functions. 3. Apply Leibnitz theorem to obtain higher derivatives of product of two differentiable functions.
Differential Equations	l. Understand types of differential equations. 2.Solve different types of ordinary differential equations. 3.Understand applications of differential equations.
Multivariable Calculus	1. Learn conceptual variations while advancing from one variable to several variables in calculus. 2. Set up and solve optimization problems involving several variables. 3. Learn the concept of Jacobian of a transformation.
Basic Algebra	l. Use fundamental concepts in Mathematics like sets, relations and functions. 2. Use fundamental concepts in Number theory. 3. Solve examples on congruence. 4. Determine n roots of unity. 5. Understand various properties of hyperbolic functions.

B.Sc. II AY 2023-24 Revised as per NEP	
Elements of Differential Equations	1. identify types of higher order ordinary differential equations. 2. solve different types of higher order ordinary differential equations. 3. understand geometrical interpretation of simultaneous and total differential equations.
Numerical Methods	1. find numerical solutions of algebraic, transcendental and system of linear equations. 2. learn about various interpolating methods to find numerical solutions 3. find numerical solutions of integration and ODE by using various methods. 4. apply various numerical methods in real life problems.
Vector Calculus	1. understand and evaluate the concepts of gradient, divergence and curl of point functions in terms of cartesian co-ordinate system. 2. understand and evaluate different types of line, surface & volume integrals and the two integral transformation theorems of Gauss and Stokes.

Integral Calculus	1. understand special functions. 2. understand types of multiple integrals. 3. apply special functions in applications. 4. apply multiple integrals in real life problems.