GOVT NAVIN COLLEGE HASOUD

JANJGIR CHAMPA (C.G.)

DEPARTMENT OF MATHEMATICS

Program specific outcome:

- PSO1. Understand mathematics idea from basic axioms.
- PSO2. Identify the application of mathematics in other disciplines and society.
- PSO3. Learn to solve improper integrals.
- PSO4. Understand the concepts of algebra which include equation, numbers and algebraic structures.
- PSO5. Student will be able to use the concept of analysis in solving problems.
- PSO6. To understand the concepts of matrices and linear equations.

Course outcome:

B.Sc.1 year:

Core 1: Algebra and Trigonometry

- CO1: To understand the type of the matrices in detail.
- CO2: Determines hermitian and skew hermitian matrices.
- CO3: Construct mapping on vector spaces.
- CO4: To understand the groups and characteristics of a ring and field.
- CO5: gains knowledge in the expansion of trigonometric functions.

Core 2: Calculus

- CO1: To understand the continuous and discontinuous functions.
- CO2: Tracing of curves in Cartesian and polar coordinates.
- CO3: Integration of transcendental functions.

CO4: Understand the degree and order of the differential equations.

CO5: Determines linear differential equations of second order.

Core 3: Vector analysis and geometric

CO1: Gain knowledge about coordinate geometry.

CO2: To understand the vector and scalar product of three vectors.

CO3: Determines the vector integration.

CO4: Understand the sphere, cone, cylinders.

CO5: Gain thorough knowledge regarding straight lines and planes.

B.Sc. 2 year

Core1: Advanced Calculus

CO1: To understand the convergent and divergent sequence and series.

CO2: Understand the properties of continuous functions.

CO3: Limit and continuity of continuous functions.

CO4: Envelopes, Evolutes, Maxima, Minima and saddle point of functions of two variables.

CO5: Gain knowledge about beta and gamma functions.

Core2: Differential Equations

CO1: Series solution of differential equation.

CO2: Use the method of Laplace transforms and Inverse transform to solve differential equation.

CO3: Partial differential equations of first order, Lagrange solution and standard forms.

CO4: Learn the concept of solving higher order differential equations.

CO5: Determines the calculus of variations.

Core3: Mechanics

CO1: Gain knowledge about the nature of forces.

CO2: To understand the forces in three dimensions points central axis.

CO3: Learn the concept of simple harmonic motions.

CO4: Keplers laws of motions.

CO5: Determines the motion in a resisting medium.

B.Sc. 3 year

Core1: Analysis

CO1: To understand the series of arbitrary terms, Schwarz theorem and Fourier series.

CO2: Learn the concept of Riemann integral.

CO3: Determines concept of Riemann integral.

CO4: Gains knowledge in metric spaces.

CO5: To understand continuous function, Compactness and connectedness.

Core2: Abstract Algebra

CO1: Analysis mapping groups, abelian groups, symmetric groups and their properties.

CO2: Learn the concept of ring theory and modules.

CO3: Learn the concept of vector spaces.

CO4: To understand the linear transformations and their representation as matrices.

CO5: Gains knowledge of inner product.

Core3: Discrete Mathematics

CO1: Understand the concept of mathematical logic as connections, concepts of tautology.

CO2: Study the concept of relations and functions.

CO3: Gain the knowledge about finite and state machines.

CO4: To understand the recurrence relations.

CO5: Classify the concept of lattices and Boolean algebra.