YashwantraoChavan College of Science, Karad
Department of Mathematics

Course Outcomes (CO) as per Blooms' Taxonomy	
B. Sc. - I	
Course Name	**Course Outcome (CO)**
	Upon successful completion of the course, students will be able to:
Basic Algebra	**CO1. Apply** De-Moivre's theorem.
	CO2. Find rank, eigen values, eigen vectors of the matrix.
	CO3. Solve system of linear homogeneous and non-homogeneous equations.
	CO4. Understand Hermitian and Skew Hermitian matrices.
Calculus	**CO1. Find** higher derivatives of product two differentiable functions using Leibnitz theorem.
	CO2. Learn conceptual variations while advancing from one variable to several variables in calculus.
	CO3. Understand the consequences of mean value theorems for differentiable functions.
	CO4. Apply L' Hospital's rule to various indeterminate forms.
Differential Equations - I	**CO1. Classify** differential equations.
	CO2. Solve different types of differential equations.
	CO3. Find orthogonal trajectories
	CO4.Learn the concept of Jacobian of a transformation.
	CO5.Apply the knowledge of differential equations to tackle problems occurring in physics and engineering.
Discrete Mathematics	**CO1. Analyze** the logical structure of statements symbolically, including the proper use of logical connectives, predicates, and quantifiers.
	CO2. Construct truth tables, prove or disprove a hypothesis, and evaluate the truth of a statement using the principles of logic.
	CO3. Understand and apply the fundamental concepts in graph theory.
	CO4. Acquire the basic knowledge of graphs namely vertex, edge, special types of graph, isomorphic graphs, matrix representation of graphs.

HEAD
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Principal
Yashwantrao Chavan College of Science, Karad