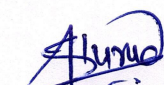


**Yashwantrao Chavan College of Science, Karad**  
**Department of Mathematics**

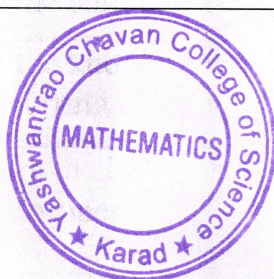
**Course Outcomes (CO) as per Blooms' Taxonomy**

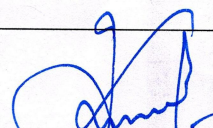
**B. Sc. - I**

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

  
**HEAD**

Department of Mathematics  
Yashwantrao Chavan College of Science,  
Karad



  
**Principal**

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