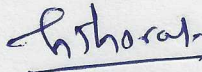


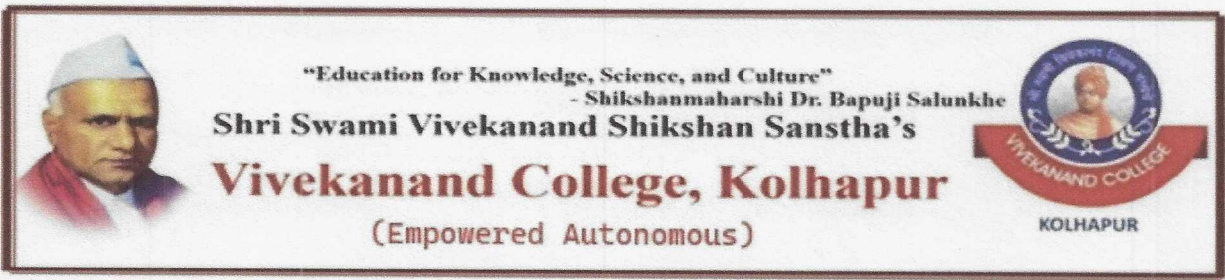
DEPARTMENT OF MATHEMATICS

Course Outcomes (COs)

B.Sc. Part I Mathematics (Introduced in year 2024-25)	
Semester I	
Basic algebra (DSC03MAT11)	
CO No.	On completion of the course, the students will be able to:
CO1	Employ 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 (DSC03MAT12)	
CO No.	On completion of the course, the students will be able to:
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'Hôpital rule to various indeterminate forms.
OE - I: Foundations of Mathematics (OEC03MTS11)	
CO No.	On completion of the course, the students will be able to:
CO1	Pictorial representations of operations on the set.
CO2	Describe sets, subsets and perform basic operations on sets
CO3	Learn to identify, represent and recognize relations and functions from schematic descriptions, arrow diagrams and graphs.
CO4	Compute distance formula, midpoint formula, equation of lines, parallel lines and perpendicular lines.



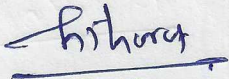

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 DEPARTMENT OF MATHEMATICS
 VIVEKANAND COLLEGE, KOLHAPUR
 (EMPOWERED AUTONOMOUS)



DEPARTMENT OF MATHEMATICS
Course Outcomes (COs)

B.Sc. Part I Mathematics (Introduced in year 2024-25)	
Semester II	
Differential Equations - I (DSC03MAT21)	
CO No.	On completion of the course, the students will be able to:
CO1	Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations
CO2	Calculate P.I and C.F. of different types of differential equation
CO3	Solve differential equation of degree more than one.
CO4	Learn applications of differential equations.
Discrete Mathematics (DSC03MAT22)	
CO No.	On completion of the course, the students will be able to:
CO1	Analyse 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 graphs, isomorphic graphs, matrix representation of graphs
OEC - II: Quantitative aptitude (OEC03MTS11)	
CO No.	On completion of the course, the students will be able to:
CO1	Understand the basic concepts of quantitative ability
CO2	Familiarize basic concepts of Logarithms.
CO3	Solve quantitative problems by using short-cut method.
CO4	Compete in various competitive exams like CAT, CMAT, GATE, GRE, UPSC, GPSC etc.




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