


"Education for Knowledge, Science, and Culture"
 - Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(Autonomous)



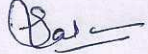
KOLHAPUR (AUTONOMOUS)

Department Of Mathematics
Course Outcomes (COs)

B.Sc. Part I Mathematics (Introduced in the year 2021)	
Semester I	
Calculus (DSC-1003A)	
CO No.	On completion of the course, student will be able to:
CO1	Calculate the limit and examine the continuity of a function at a point.
CO2	Understand the consequence of various mean value theorems for differentiable functions.
CO3	Sketch curves in Cartesian and polar coordinate systems.
CO4	Calculate the radius of curvature of circle in parametric and cartesian form
Algebra and Geometry (DSC-1003A)	
CO No.	On completion of the course, student will be able to:
CO1	Familiarize with relations, equivalence relations and partitions.
CO2	Employ De-Moivre's theorem in a number of applications to solve numerical problems.
CO3	Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank.
CO4	Understand various equation form of sphere
Semester II	
Multivariable Calculus (DSC-1003B)	
CO No.	On completion of the course, student will be able to:
CO1	Learn conceptual variations while advancing from one variable to several variables in calculus.
CO2	Apply multivariable calculus in optimization problems.
CO3	Applications of multivariable calculus tools in physics, economics, optimization and understanding the architecture of curves and surfaces in plane and space
CO4	Calculate extreme value of function of two variable by various method

Ordinary Differential Equations (DSC-1003B)	
CO No.	On completion of the course, student will be able to:
CO1	Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations of higher order.
CO2	Know Picard's method of obtaining successive approximations of solutions of first order differential equations, passing through a given point in the plane and Power series method for higher order linear equations.
CO3	Formulate mathematical model in the form of ordinary differential equations to suggest solutions of the day to day problems arising in physical, chemical & biological discipline.
CO4	Learn various technique of solving Clairaut's equation




 (S. P. Patankar)
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