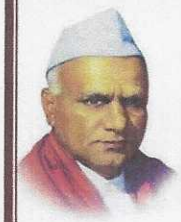

"Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Autonomous)

KOLHAPUR (AUTONOMOUS)

Department Of Mathematics

Course Outcomes (COs)

B.Sc. Part II Mathematics (Introduced in the year 2022-23)	
Semester III	
Number Theory (DSC-1003C)	
CO No.	**On completion of the course, student will be able to:**
CO1	Use mathematical induction and understand the logic and methods behind the major proofs in Number Theory.
CO2	Describe method of solving linear Diophantine equation
CO3	Determine GCD and LCM by using Euclidean algorithm.
CO4	Understand the definition of congruence and familiar with number theoretic functions.
Integral Calculus (DSC-1003)	
CO No.	**On completion of the course, student will be able to:**
CO1	Acquire the information about beta, gamma function and evaluate it in various problems
CO2	Apply Leibnitz rule for differential under integral sign
CO3	Learn definition of Fourier Series, Odd and Even Functions, Half range series
CO4	Learn definition of Fourier Series, Odd and Even Functions, Half range series
Semester IV	
Discrete Mathematics (DSC-1003D)	
CO No.	**On completion of the course, student will be able to:**
CO1	Understand Recurrence Relation, generating functions and solving problems involving recurrence equations.
CO2	Understand basic concept of graph theory to apply in various fields
CO3	Formulate Recurrence Relations to solve problems involving an unknown sequence.
CO4	Familiarize with the types of graphs, types of paths and their properties

Integral Transforms (DSC-1003D)	
CO No.	**On completion of the course, student will be able to:**
CO1	recognize the different methods of finding Laplace transforms and Fourier transforms of different functions.
CO2	explain the applications and the usefulness of these special functions.
CO3	Determine Fourier transform, Relation between Laplace and Fourier Transform.
CO4	apply the knowledge of Laplace transforms, Fourier transforms and Finite Fourier transforms in finding the solutions of differential equations,

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(S. P. Thorat)
HEAD
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