



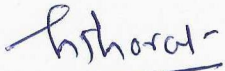
"Dissemination of Education for Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)
Department of Mathematics




Content with Cross Cutting Issues U. G. 2024-25

Sr.No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP 2020
B. Sc. I Mathematics (Newly Introduced in 2024-25)									
1	Basic Algebra	DSC03MAT11	2024-25				Matrices	Eigen value and Eigen vector, Rank of matrix	
2	Calculus	DSC03MAT12	2024-25				High order derivative, Mean Value theorem.	Leibnitz theorem and its application, Successive differentiation	
3	Differential Equations-I	DSC03MAT21	2024-25				First order and first degree differential equations, second order differential equations, Partial Differential equations		
4	Discrete Mathematics	DSC03MAT22	2024-25				Graph theory		
B. Sc. II Mathematics (Newly Introduced in 2024-25)									
1	Multivariable Calculus	DSC03MAT31	2024-25				Vector differential operator Del, Divergence, Gradient, and Curl of vector, Jacobian		
2	Integral Calculus	DSC03MAT32	2024-25				Fourier series		
3	Calculus of Multiple Variable	MIN03MAT31	2024-25				Vector differential operator Del, Divergence,		

							Gradient, and Curl of vector, Jacobian		
4	Calculus of Integrable functions	MIN03MAT32	2024-25				Fourier series		
5	Discrete Mathematics	DSC03MAT41	2024-25	Fibonacci Numbers		Generating function and Recurrence relation	Graph theory		
6	Integral Transform	DSC03MAT42	2024-25					Inverse Laplace Transform and application	
7	Graph Theory and Recurrence Relations	MIN03MAT41	2024-25	Fibonacci Numbers		Generating function and Recurrence relation	Graph theory		
8	Laplace and Fourier Transformations	MIN03MAT42	2024-25					Inverse Laplace Transform and application	
B. Com. I Mathematics (Newly Introduced in 2024-25)									
1	Business Mathematics I	OEC02MAT11	2024-25	Compound interest, Ratio, Percentage, A.P, G.P.		Compound interest, Ratio, Percentage, A.P, G.P.		Linear Programming Problem	
2	Business Mathematics II	OEC02MAT21	2024-25	Permutation and Combination		Permutation and Combination		Application of differentiation, Transportation and Assignment problem	


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