

Loknete Dr. Balasaheb Vikhe Patil (Padma Bhushan Awardee)
Pravara Rural Education Society's
Arts, Commerce and Science College, Satral
Department of Mathematics
Certificate Course in Laplace Transform and It's Applications

Syllabus (02 credits)

Sr. No.	Topic	Sub Topic and Learning Points	No. of Lectures
1.	The Laplace Transform	i. Definition, Laplace Transform of some elementary functions. ii. Some important properties of Laplace Transform. iii. Laplace Transform of derivatives, Laplace Transform of Integrals. iv. Methods of finding Laplace Transform, Evaluation of Integrals.	12
2.	The Inverse Laplace Transform	i. Definition, Some inverse Laplace Transform. ii. Some important properties of Inverse Laplace Transform. iii. Inverse Laplace Transform of derivative, Inverse Laplace Transform of integrals. iv. Convolution Theorem, Evaluation of Integrals.	12
3	Applications of Laplace Transform	i. Solution of Ordinary Differential Equations with constant coefficients.	06


Coordinator