





**TULSIRAMJI GAIKWAD-PATIL College of Engineering and Technology** Wardha Road, Nagpur - 441108 Accredited with NAAC A+ Grade Approved by AICTE, New Delhi, Govt. of Maharashtra (An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)

## **BAE2401: Applied Mathematics-IV**

BAE2401	Course Outcomes
CO1	<b>Solve</b> first and second order ordinary differential equation arising in flow problems using single step and multi-step numerical methods.
CO2	<b>Solve</b> problems on the concepts of analytic functions, residues, poles of complex potentials and conformal and Bilinear transformation arising in field theory and signal processing.
CO3	<b>Apply</b> the knowledge of probability distribution of discrete, continuous random variables and joint probability distribution in solving complex problems on digital signal processing, information theory and design engineering.
CO4	Analyze testing of hypothesis of sampling distributions by illustrating examples of Markov chains related to discrete parameter stochastic process.
CO5	<b>Examine</b> Stochastic processes and matrices for solving simple problems on higher transition probability.