



## TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE, ME, CE & ECE)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Aeronautical Engineering Department

### BAE33503: Aerodynamics-II

BAE33503	Course Outcomes	CL	Class Sessions
CO1	<b>Apply</b> the fundamental conservation equations to analyze one-dimensional compressible flow.	3	9
CO2	<b>Analyze</b> the behavior of normal and oblique shock waves, and their effects using shock relations	3	9
CO3	<b>Evaluate</b> complex shock interactions, expansion fans, and nozzle flows using area-Mach relations.	4	9
CO4	<b>Solve</b> linearized and exact 2D supersonic flow equations by Prandtl-Glauert transformation relations.	4	9
CO5	<b>Apply</b> wind tunnel test results and flow visualization techniques in flow regimes for aerodynamic model validation.	3	9