



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

BAE33507: Industrial Aerodynamics

BAE33507	Course Outcomes	CL	Class Sessions
CO1	Explain the characteristics of atmospheric circulation and boundary layer profiles	3	9
CO2	Compare the performance of horizontal and vertical axis wind turbines based on energy extraction	2	9
CO3	Analyze boundary layer behavior, vortex shedding, and aerodynamic forces on vehicles.	3	9
CO4	Evaluate wind-induced pressures and forces on buildings to improve ventilation and stability.	4	9
CO5	Analyze flow-induced vibrations such as vortex shedding, galloping, and stall flutter.	3	9