



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. YAGYA DUTTA DWIVEDI	Department:	Aeronautical Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
Course Name:	Aerodynamics and Propulsion Laboratory	Course Code:	AAEC12
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Demonstrate the wind tunnel calibration for different speeds and velocity and verify by using Pitot Tube of Wind tunnel.	1.60	0.00	1.6	Not Attained
CO2	Analyse the pressure distribution of cylinder, symmetrical, and cambered airfoils at different angles of attack and flow speed by using subsonic wind tunnel.	1.60	0.00	1.6	Not Attained
CO3	Estimate the aerodynamic forces and moments of the different models for getting aerodynamic characteristics and performance.	1.60	0.00	1.6	Not Attained
CO4	Analyze the properties of fuels for determining the flash point, fire point and viscosity of fluids	1.60	0.00	1.6	Not Attained
CO5	Analyze the mechanical efficiency of gas turbine stages for designing futuristic gas turbine engines based on requirements	1.60	0.00	1.6	Not Attained
CO6	Estimate convective heat transfer coefficient under free and forced convection for distinguishing appropriate methods of cooling in aircraft engines.	1.60	0.00	1.6	Not Attained

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO1: Additional experimentation on the wind tunnel calibration is to be provided.

CO2: Additional reading content on pressure distribution of cylinder, symmetrical, and cambered airfoils is to be provided.

CO3: Additional reading content on aerodynamic forces and moments is to be provided.

CO4: Additional reading content on the properties of fuels is to be provided.

CO5: Additional experimentation on the mechanical efficiency of the gas turbine is to be provided.

CO6: Additional experimentation on the free and forced convections is to be provided.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
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