



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. C SURESH</b>	Department:	<b>Aeronautical Engineering</b>
Regulation:	<b>IARE - R20</b>	Batch:	<b>2021-2025</b>
Course Name:	<b>Aerodynamics and Propulsion Laboratory</b>	Course Code:	<b>AAEC12</b>
Semester:	<b>IV</b>	Target Value:	<b>60% (1.8)</b>

#### Attainment of COs:

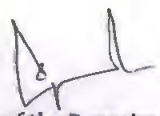
Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Demonstrate the wind tunnel calibration for different speeds and velocity and verify by using Pitot Tube of Wind tunnel.	1.60	0.00	1.6	Not Attained
CO2 Analyse the pressure distribution of cylinder, symmetrical, and 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 exercises on wind tunnel calibration are to be performed.
- CO2: Additional reading materials on pressure distribution are to be provided.
- CO3: Additional exercises on estimation of aerodynamic forces and moments are to be performed.
- CO4: Digital content on properties of fuels are to be provided.
- CO5: Digital content on mechanical efficiency of gas turbine are to be given.
- CO6: Additional exercises on determining heat transfer coefficient are to be performed.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Aeronautical Engineering  
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