



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. S DEVARAJ	Department:	Aeronautical Engineering
Regulation:	IARE - UG20	Batch:	2021-2025
Course Name:	Techniques in Wind Tunnel Testing	Course Code:	AAEC36
Semester:	VII	Target Value:	60% (1.8)

#### Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Illustrate the types of wind tunnels, Scaling Laws, Similarity parameters used for the analysis of the prototype models	2.40	2.00	2.3	Attained
CO2	Explain the components and the percentage energy loss in the various parts of low and high-speed wind tunnels for obtaining the accurate results from the wind tunnel experiments	2.70	2.00	2.6	Attained
CO3	Select the methods for the improvements of wind tunnel performance and corrective measures for obtaining accurate results	2.30	2.00	2.2	Attained
CO4	Identify the various load balances used in the wind tunnels for analyzing the aerodynamic characteristics of designed prototype model	1.60	2.00	1.7	Not Attained
CO5	Illustrate the flow measurement devices for pressure, velocity, and temperature for a prototype model	1.30	2.00	1.4	Not Attained
CO6	Examine the various flow visualization techniques used in wind tunnels for the analysis of aerodynamic and automobile engineering problems	2.00	2.00	2	Attained

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

CO4: Additional assignments to be given on various load balancing techniques for analysing the aerodynamic characteristics

CO5: Digital video content are to be given in laboratory classes for better understanding of flow measurement devices

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Aeronautical Engineering  
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