



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. ANWAR BAIG	Department:	Aeronautical Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
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	3.00	2.20	2.8	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	0.90	2.20	1.2	Not Attained
CO3	Select the methods for the improvements of wind tunnel performance and corrective measures for obtaining accurate results	1.60	2.20	1.7	Not Attained
CO4	Identify the various load balances used in the wind tunnels for analyzing the aerodynamic characteristics of designed prototype model	0.90	2.20	1.2	Not Attained
CO5	Illustrate the flow measurement devices for pressure, velocity, and temperature for a prototype model	0.90	2.20	1.2	Not Attained
CO6	Examine the various flow visualization techniques used in wind tunnels for the analysis of aerodynamic and automobile engineering problems	0.90	2.20	1.2	Not Attained

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

- CO2: Conducted revision lectures on low-speed and high-speed wind tunnel layouts
- CO3: Explained wind tunnel correction factors and performance improvement techniques
- CO4: Introduced different types of wind tunnel balances (external and internal)
- CO5: Explained pressure, velocity, and temperature measurement instruments
- CO6: Introduced flow visualization methods such as smoke, tuft, oil flow, and schlieren techniques


Course Coordinator


Mentor


Head of the Department

Head of the Department
Aeronautical Engineering
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