



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:	IAE - R20	Batch:	2020-2024
Course Name:	Techniques in Wind Tunnel Testing	Course Code:	AAEC36
Semester:	VI	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	0.30	2.20	0.7	Not 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	0.60	2.30	0.9	Not Attained
CO3 Select the methods for the improvements of wind tunnel performance and corrective measures for obtaining accurate results	0.90	2.20	1.2	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	0.60	2.20	0.9	Not Attained

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

CO1: Digital content on scaling laws and wind tunnel types is to be provided.

CO2: Additional reading materials on wind tunnel energy losses are to be provided.

CO3: Digital content on improvements of wind tunnel are to be provided.

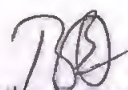
CO4: Additional content on analyzing aerodynamic characteristics in prototypes is to be provided.

CO5: Digital content on flow measurement devices is to be provided.

CO6: Digital content on flow visualization techniques used in wind tunnel are to be provided for better understanding.


Course Coordinator


Mentor


Head of the Department
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