

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

| Name of the faculty: | Dr. Prasanta Kumar Mohanta | Department: | Aeronautical Engineering |
|----------------------|----------------------------------|---------------|-----------------------------|
| Regulation: | R16 | Batch: | 2016-20 |
| Course Name: | Experimental Aerodynamics | Course Code: | AAE509 |
| Semester: | VI | Target Value: | 55% (1.8) |

Attainment of COs:

| Course Outcome | | Direct attainment | Indirect attainment | Overall attainment | Observation |
|----------------|--|----------------------|------------------------|-----------------------|---------------------------|
| CO1 | Illustrate the types of wind tunnel, Scaling laws, and Similarity parameters used for the analysis of the prototype models. | 3.0 | 2.4 | 2.9 | Attainment target reached |
| 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 wind tunnel experiments. | 3.0 | 2.4 | 2.9 | Attainment target reached |
| CO3 | Select the methods for the improvements of wind tunnel performance and corrective measures for attaining the accurate results | 3.0 | 2.4 | 2.9 | Attainment target reached |
| CO4 | Identify the various load balances used in the wind tunnel for analysing the aerodynamic characteristics of designed prototype models. | 3.0 | 2.4 | 2.9 | Attainment target reached |
| CO5 | Select the flow measurement devices for pressure, velocity, and temperature over a prototype model. | 3.0 | 2.4 | 2.9 | Attainment target reached |
| CO6 | Examine the various flow visualization techniques used in wind tunnels for the analysis of aerodynamic and automobile engineering problems. | 3.0 | 2.4 | 2.9 | Attainment target reached |

| Action | taken | report: |
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Course Coordinator

Head of the Depa Aeronautical Eng INSTITUTE OF AERONAUTICA Dundigal, Hyderabad