



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PRASANTA KUMAR MOHANTA	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	AERODYNAMICS	Course Code:	AAEB10
Semester:	IV	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Develop the mathematical model of non-lifting, lifting flow over circular cylinder for identifying relation between lift and circulation	3.00	2.40	2.9	Attained
CO2 Solve the lift characteristics of wing of infinite aspect ratio from classical thin airfoil for selecting suitable airfoil	2.70	2.40	2.6	Attained
CO3 Examine the flow over finite wing using the concept of Prandtl's lifting line theory for determining the effect of span wise flow on the lift distribution	2.40	2.40	2.4	Attained
CO4 Identify the effect of wing twist, wing taper and wing sweep for perceiving the aerodynamic characteristics of finite wing.	2.40	2.40	2.4	Attained
CO5 Demonstrate the effect of propeller slipstream flow on the wing and tail unit for identifying its effect on their aerodynamic characteristics.	2.00	2.40	2.1	Attained
CO6 Interpret the regimes and separation of boundary layer over external fluid flow systems for identifying the effect of viscosity on the drag force	0.30	2.40	0.7	Not Attained

#### Action taken report:

CO6:

Digital content and videos are given in classes for a better understanding of concept.

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Aeronautical Engineering  
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