



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. MARUTHUPANDIYAN K	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Aerodynamics	Course Code:	AAEC08
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	0.70	2.40	1	Not Attained
CO2: Solve the lift characteristics of wing of infinite aspect ratio from classical thin airfoil for selecting suitable airfoil	0.00	2.40	0.5	Not 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	0.60	2.40	1	Not Attained
CO4: Identify the effect of wing twist, wing taper and wing sweep for perceiving the aerodynamic characteristics of finite wing	2.00	2.40	2.1	Attained
CO5: Make use of the Kutta-Joukowski transformation for mathematically modeling the flow over airfoil	0.30	2.40	0.7	Not Attained
CO6: Distinguish the regimes and separation of boundary layer over external fluid flow systems for finding the effect of viscosity on the drag force	0.00	2.40	0.5	Not Attained

Action Taken:

CO1: Digital content and videos are given in classes for a better understanding of concept

CO2: Extra inputs are given to enhance the knowledge of airfoil selection.


CO3: Digital content and videos are given in classes for a better understanding of concept

CO5: Extra inputs are given to enhance the knowledge of flow over airfoil.

CO6: Additional reading materials are provided on boundary layer separation.


Course Coordinator


Mentor


Head of the Department
Head of the Department
Aeronautical Engineering
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