



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:	2021-2025
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	0.00	2.40	0.5	Not Attained
CO2 Solve the lift characteristics of wing of infinite aspect ratio from classical thin airfoil for selecting suitable airfoil	0.70	2.40	1	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	0.90	2.40	1.2	Not Attained
CO4 Identify the effect of wing twist, wing taper and wing sweep for perceiving the aerodynamic characteristics of finite wing	0.90	2.40	1.2	Not Attained
CO5 Make use of the Kutta-Joukowski transformation for mathematically modeling the flow over airfoil	0.60	2.40	1	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	0.30	2.40	0.7	Not Attained

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

CO1: Additional reading material on mathematical modelling of flow are to be given.

CO2: Digital content on utilizing lift characteristics of wing are to be given.

CO3: Additional reading material on Prandtl's lifting line theory is to be given.


CO4: Digital content on aerodynamic characteristics of wing are to be provided.

CO5: Additional assignment on Kutta-Joukowski transformation are to be provided.

CO6: Digital content on separation of boundary layer is to be provided for better understanding.

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Course Coordinator


Mentor


Head of the Department
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