INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. GUNDA SHIVA KRISHNA**	Department:	**Aeronautical Engineering**
Regulation:	**IARE - UG20**	Batch:	**2022-2026**
Course Name:	**Flight Vehicle Design Laboratory**	Course Code:	**AAEC44**
Semester:	**VII**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Choose data collection for conceptual sketch from existing aircraft for understanding aerodynamic performance requirements.	1.00	0.00	1	Not Attained
CO2	Classify rubber engine sizing of a given fighter aircraft for calculating the take-off weights in order so that the aircraft meets all set requirements	1.00	0.00	1	Not Attained
CO3	Make use of airfoil geometry and co-ordinates for obtaining the required 3D model by using designer tools like catiaV5.	1.00	0.00	1	Not Attained
CO4	Simplify the performance estimations involving design layout for calculating the variation of C L and CD at angle of attack.	1.00	0.00	1	Not Attained
CO5	Estimate take-off gross weight of simple cruise mission profile for calculating the empty weight fraction.	1.00	0.00	1	Not Attained
CO6	Identify the total drags on an aircraft and calculate the total weight, thrust and drag for exit pressure and Mach number for the given nozzle configurations.	1.00	0.00	1	Not Attained

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

CO1: Explained how to extract geometric and performance data from existing aircraft

CO2: Explained rubber engine sizing methodology and its application

CO3: Demonstrated airfoil coordinate generation and interpretation

CO4:

- Explained lift and drag estimation methods during conceptual design. Discussed variation of CL and CD with angle of attack

CO5: Explained simple cruise mission profile and weight fraction method

CO6: Explained different drag components and total drag estimation

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
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