



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. ATHOTA RATHAN	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Aircraft Stability and Control	Course Code:	AAEC24
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Identify the concept of static stability in longitudinal, lateral and directional modes by using mathematical expression for different aircraft stability conditions.	3.00	2.20	2.8	Attained
CO2 Solve Solve the design problems of the airframe components considering the aircraft static stability by using stability criteria equations and plots.	1.30	2.20	1.5	Not Attained
CO3 Make use of the aircraft equations of motion in 6- degree of freedom and transform one axis to another axis system by using mathematical formulations for understanding the behavior in different flight maneuvers.	2.30	2.20	2.3	Attained
CO4 Develop the procedure to linearization of equations of motion by using perturbation theory for determining aerodynamic derivatives of the airplane.	1.40	2.20	1.6	Not Attained
CO5 Examine the different types of dynamic modes in longitudinal, lateral and directional motion for the aircraft and their influence on dynamic stability and safety.	2.00	2.20	2	Attained
CO6 Apply the advance theories of flight dynamics in design of modern control airplane control systems for enhancing aircraft performance, Modern control systems and autopilot system.	1.30	2.30	1.5	Not Attained


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


CO2: Additional problems on aircraft static stability are to be provided.

CO4: Additional reading material on perturbation theory are to be provided.

CO6: Additional reading materials on advance theories of flight dynamics for better understanding of concepts.


Course Coordinator


Mentor


Head of the Department
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