



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. V PHANINDER REDDY	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Automatic Control of Aircraft	Course Code:	AAEC52
Semester:	VIII	Target Value:	60% (1.8)

Attainment of COs:

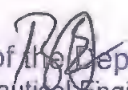
Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Explain the principles of guidance, navigation, and governing laws for the control of aircraft for getting the desired aircraft attitude	1.30	2.20	1.5	Not Attained
CO2 Demonstrate the automatic flight control system under different types of flight conditions for assessing the stability and control of an airplane	0.60	2.20	0.9	Not Attained
CO3 Summarize the automatic gain schedule concept for airplane control by plotting the required curve for obtaining desired automatic control of the flight vehicle	0.90	2.20	1.2	Not Attained
CO4 Apply the concept of displacement autopilots and orientation control in longitudinal motion with its elements for optimal flight automated control of the airplane	0.90	2.20	1.2	Not Attained
CO5 Make use of the aircraft longitudinal flight control laws by using simple stepping algorithm for optimizing the required control of the flight vehicles.	0.90	2.20	1.2	Not Attained
CO6 Outline the fly-by-wire flight control by using flight control laws and modern computational tools system for the assessment of redundancy and failure of the aircraft operation	0.90	2.20	1.2	Not Attained

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

- CO1: Digital content on guidance and navigation is to be provided.
- CO2: Additional reading content on the automatic flight control system is to be provided.
- CO3: Additional content on the automatic gain schedule concept is to be provided.
- CO4: Digital content on orientation control in longitudinal motion is to be provided.
- CO5: Additional examples of simple stepping algorithms are provided for better understanding.
- CO6: Digital content on the assessment of redundancy and failure of the aircraft is to be provided.


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043