



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. YAGYA DUTTA DWIVEDI	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	Automatic Control of Aircraft	Course Code:	AAEB49
Semester:	VIII	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Identify the principles of guidance, navigation, and governing laws for the control of aircraft for getting the desired aircraft attitude.	1.60	2.40	1.8	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	2.40	1	Not Attained
CO3 Examine the automatic gain schedule concept for airplane control by plotting the required curve f or obtaining desired automatic control of the flight vehicle.	1.60	2.40	1.8	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	2.40	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.	1.60	2.40	1.8	Attained
CO6 Analyze 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	2.40	1.2	Not Attained

#### Action taken report:

##### CO2:

Additional reading materials are provided on stability and control of plane.

##### CO4:

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

##### CO6:


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



Course Coordinator



Mentor



Head of the Department  
Head of the Department  
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