



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. G SRAVANTHI	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Flight Mechanics	Course Code:	AAED09
Semester:	IV	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Demonstrate the mission profiles of simple cruise, commercial transport and military aircrafts for getting the airplane performance characteristics.	1.20	2.30	1.4	Not Attained
CO2	Explain the cruise performance of an airplane in relation with range and endurance with different types of aircraft engines.	1.20	2.30	1.4	Not Attained
CO3	Develop the aircraft man oeuvre performance to perform in turn, pull-up and pull-down man oeuvres by considering limitations of power for military and civil aircrafts	2.40	2.30	2.4	Attained
CO4	Develop the aircraft man oeuvre performance to perform in turn, pull-up and pull-down man oeuvres by considering limitations of power for military and civil aircrafts	0.00	2.30	0.5	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.	0.40	2.40	0.8	Not 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	0.00	2.40	0.5	Not Attained

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

CO1: Conducted additional lectures explaining typical mission profiles of civil and military aircraft.

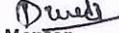
CO2: Reinforced concepts of range and endurance for propeller- and jet-powered aircraft through remedial classes

CO4: Conducted focused revision sessions on manoeuvre performance limitations

CO5: Delivered supplementary lectures on longitudinal, lateral, and directional dynamic modes

CO6: Introduced fundamental concepts of modern control theory and autopilot systems through additional sessions

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Aeronautical Engineering  
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