



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. JULURU SANDEEP	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Analysis of Aircraft Structures	Course Code:	AAED16
Semester:	V	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Identify factors contributing to fatigue in materials used in aircraft construction various methods for fatigue analysis in aircraft structures.	1.80	2.30	1.9	Attained
CO2 Understand the fundamental principles and applications of energy methods in structural analysis the principle of virtual work to solve structural engineering problems.	0.40	2.30	0.8	Not Attained
CO3 Understand the principles of torsion and its effects on circular cylinders and calculate torsional deformations in circular cylinders.	1.20	2.20	1.4	Not Attained
CO4 Understand the stability considerations in thin-walled beam structures thin walled beams with stability in mind.	0.00	2.20	0.4	Not Attained
CO5 Apply knowledge to solve engineering challenges related to torsion in thin walled beams structures with thin walled beams considering torsional requirements.	1.20	2.20	1.4	Not Attained
CO6 Explore the torsional characteristics of thin-walled beams and calculate torsional deformations in thin walled beam structures.	1.20	2.20	1.4	Not Attained

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

- CO2: Conducted remedial classes focusing on the principle of virtual work and its step-by-step application
CO3: Organized extra problem-solving sessions on torsion of circular shafts and angle of twist calculations.
CO4: Conducted interactive classroom discussions and conceptual quizzes to improve understanding
CO5: **Gave design-oriented numerical problems related to torsion in thin-walled beam structures**
CO6: Provided step-by-step demonstrations for calculating torsional deformations in thin-walled beams


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
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