

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AEROSPACE ENGINEERING**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	Mr. GUNDA SHIVA KRISHNA	Department:	Aerospace Engineering
Regulation:	IARE - MT23	Batch:	2023-2025
Course Name:	Aircraft Structural Mechanics	Course Code:	BAED14
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Utilize the Impact Strength and Fatigue Strength concept for interpreting stresses due to axial, bending, and torsional loads.	0.60	2.30	0.9	Not Attained
CO2	Choose Strain Energy and Columns concept for predicting the to axial, bending and Torsional loads, various end conditions, Euler's Column curve, Rankine's formula, and Column with initial curvature	0.60	2.30	0.9	Not Attained
CO3	Inspect the Bending of thin-walled beams to find the Mechanical Behaviors.	1.20	2.30	1.4	Not Attained
CO4	Develop the torsion and shear of the thin plate for predicting the mechanical properties.	1.80	2.60	2	Attained
CO5	Illustrate the concepts of stability problems of thin-walled structures.	0.00	2.50	0.5	Not Attained
CO6	Make use of the concept of Aircraft Loads - Symmetric maneuver loads - Load factor determination for the aircraft structure.	0.00	2.50	0.5	Not Attained

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

CO1: To help students understand the behavior of materials under various loading conditions, specifically axial, bending, and torsional loads.

CO2: Students applied strain energy and column stability concept, to predict structural responses under axial, bending, and torsional loads with various end conditions.

CO3: Additional materials and digital content is provided

CO5: Students illustrated the concepts by analyzing local buckling, overall buckling, shear instability, and the influence of boundary conditions on critical load capacity.

CO6: Additional materials and digital content is provided

Course Coordinator
Mentor
Head of the Department

Head of the Department
Aeronautical Engineering
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