INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. GUNDA SHIVA KRISHNA**	Department:	**Aeronautical Engineering**
Regulation:	**IARE - BT23**	Batch:	**2023-2027**
Course Name:	**Aircraft Structures**	Course Code:	**AAED06**
Semester:	**IV**	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 effect of inertia, Goodman and Soderberg relationship, and stresses due to combined loading, cumulative fatigue damage.	0.00	1.90	0.4	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.	0.80	1.90	1	Not Attained
CO3	Inspect Bending of thin-walled beams for finding the Mechanical Behaviors	1.20	1.90	1.3	Not Attained
CO4	Develop torsion and shear of thin plate for predicting the mechanical properties.	0.00	1.90	0.4	Not Attained
CO5	Illustrate the concepts General aspects of Shear stress distribution for interpreting end of a closed section beam, Thin-walled rectangular section beam subjected to torsion.	0.80	1.90	1	Not Attained
CO6	Make use of concept of Torsion of an arbitrary section beam, Distributed torque loading for determining the I-section beam subjected to torsion and Moment couple conditions.	0.00	2.00	0.4	Not Attained

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

CO1: Solved numerical problems involving axial, bending, torsional, and combined loading to strengthen stress interpretation skills.
CO2: Explained Euler's column theory, Rankine's formula, and effects of different end conditions using solved examples.
CO3: Delivered focused lectures on bending behavior and stress distribution in thin-walled beams.
CO4: Explained governing equations and assumptions using illustrative examples.
CO5: Reinforced theoretical concepts through additional lectures on shear flow and shear stress distribution.
CO6: Provided detailed explanation of torsion of arbitrary sections and distributed torque loading conditions.

Course Coordinator **Mentor** **Head of the Department**

Head of the Department
Aeronautical Engineering
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