

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

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

Name of the faculty:	Dr. BDY SUNIL	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Mechanics of Solids	Course Code:	AAED01
Semester:	III	Target Value:	60% (1.8)

**Attainment of COs:**

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Demonstrate the concepts of stress-strain, material constitutional relationship and strain energy induced in isotropic materials under different loadings.	3.00	2.40	2.9	Attained
CO2	Make use of the concepts of shear force and bending moment in beams, and power transmission in shafts for analyzing the strength under different loadings.	3.00	2.40	2.9	Attained
CO3	Apply theory of distribution of bending stresses and shearing stress across the beams for the safe design of aircraft components subjected different loadings.	3.00	2.40	2.9	Attained
CO4	Utilize Maxwell's reciprocal theorem and double integration for determining the slope and deflections in beams under different types of loadings.	1.60	2.40	1.8	Attained
CO5	Utilize Euler's formula for determining the buckling load in columns under different end conditions.	2.20	2.40	2.2	Attained
CO6	Apply the concepts of longitudinal and circumferential stresses induced in cylinders for the safe design under inside and outside pressure.	1.20	2.40	1.4	Not Attained

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

CO6: Additional and digital content are provided for better understanding of concepts

Course Coordinator

Mentor

Head of the Department

Head of the Department  
Aeronautical Engineering  
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