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

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. NAVEENKRISHNA ALLA**	Department:	**Mechanical Engineering**
Regulation:	**IARE - R20**	Batch:	**2022-2026**
Course Name:	**Solid Mechanics**	Course Code:	**AMEC05**
Semester:	**III**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Relate the concepts of stress and strain at a point as well as the stress-strain relationships for linear, elastic, homogeneous and isotropic materials.	2.70	2.40	2.6	Attained
CO2	Summarize the equilibrium equations for constructing the shear force and bending moment diagrams for different types of loads on cantilever, simply supported and over hanging beams.	3.00	2.40	2.9	Attained
CO3	Identify the principal stresses, maximum shearing stresses and angles acting on any arbitrary plane within a structural element using Mohr's circle method.	3.00	2.50	2.9	Attained
CO4	Apply the knowledge of theories of failure, shear force and bending moment relations for analyzing the flexural stress, shear stress distributions and failure of beam sections.	2.00	2.50	2.1	Attained
CO5	Utilize Maxwell's reciprocal theorem, double integration method and moment area method to determine the maximum and minimum slope and deflections of beams.	2.40	2.40	2.4	Attained
CO6	Make use of the concept of torsion and buckling of thin shells, spheres, etc. to determine the stresses at various points of geometry.	2.70	2.50	2.7	Attained

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

Course Coordinator

Mentor

Head of the Department