INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME ACTION TAKEN REPORT

Name of the faculty:	**Dr. K Viswanath Allamraju**	Department:	**ME**
Regulation:	**IARE - R16**	Batch:	**2017 - 2021**
Course Name:	**Mechanics of Solids**	Course Code:	**AME004**
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.	2.40	2.30	2.4	Attainment target reached
CO2	Explain the shear force and bending moment diagrams for different types of loads on cantilever, simply supported and over hanging beams.	1.30	2.40	1.5	Attainment target not reached
CO3	Calculate the moment of inertia, flexural stresses and draw the bending stress distribution diagrams of various beam sections.	0.30	2.30	0.7	Attainment target not reached
CO4	Construct the shear stress distribution diagrams for various beam sections by calculating stresses at different locations.	0.60	2.40	1	Attainment target not reached
CO5	Determine the principal stresses, strains, maximum shearing stresses and angles acting on any arbitrary plane within a structural element.	0.60	2.10	0.9	Attainment target not reached
CO6	Apply the concept of torsion and calculate angle of twist, shear stress, etc. relating to Hooke's law to draw shear stress distribution within a circular shaft.	0.60	2.10	0.9	Attainment target not reached

Action taken report:

CO2: More problems on shear force and bending moment diagrams to be practiced in tutorial hours.
CO3: Additional Work sheets to be solved in bending stress distribution diagrams.
CO4: Extra tutorial hours required to be solved in Shear stress distribution across various beams sections.
CO5: More problems to be solved in principal stresses, strains, maximum shearing stresses.
CO6: Additional Work sheets to be solved in combined bending and torsion of shafts.

Course Coordinator   **Mentor**   Head of the Department
HOD
Mechanical Engineering
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