INSTITUTEOFAERONAUTICALENGINEERING

(Autonomous)

Dundigal,Hyderabad-500043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME–ACTION TAKEN REPORT

Name of the faculty:	Mr A. Somaiah	Department:	ME
Regulation:	IARE-R16	Batch:	2016 -2020
CourseName:	Mechanics of Solids	Course Code:	AME004
Semester:	III	TargetValue:	60% (1.8)

Attainment of COs:

	CourseOutcome	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.	1.60	2.40	1.8	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.	0.90	2.40	1.2	Attainment target not reached
CO3	Calculate the moment of inertia, flexural stresses and draw the bending stress distribution diagrams of various beam sections.	1.60	2.60	1.8	Attainment Target reached
CO4	Construct the shear stress distribution diagrams for various beam sections by calculating stresses at different loacations.	0.60	2.50	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	2.50	1	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.	0.30	2.60	0.8	Attainment target notreached

1.26

Action taken report:
CO2: Different types of problems on shear force and bending moment diagrams to be practiced in tutorial hours.
CO4: Additional Work sheets 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: Extra tutorial hours required to solve various problems in combined bending and torsion of shaft

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