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

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. U VAMSI MOHAN**	Department:	**Civil Engineering**
Regulation:	**IARE - R20**	Batch:	**2021-2025**
Course Name:	**Strength of Materials**	Course Code:	**ACEC02**
Semester:	**III**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Summarize the concepts of stress, strain and strain energy in conjunction with elastic properties of materials for understanding the behaviour of simple and composite bars subjected to uniaxial and biaxial stresses.	1.70	2.10	1.8	Attained
CO2	Explain the relationship between bending moment, shear force and rate of loading for understanding response of the member under external loads	0.00	2.10	0.4	Not Attained
CO3	Apply the theory of simple bending to beams for computing the flexural strength and distribution of bending and shear stress across the section.	0.30	2.10	0.7	Not Attained
CO4	Apply the torsion equation to springs, solid and hollow circular shafts for computing torsional stiffness of springs and power transmitted by shafts.	0.30	2.10	0.7	Not Attained
CO5	Illustrate the concepts of principal stresses and principal strains with the help of Mohr's circle of stresses for solving two-dimensional stress problems.	0.60	2.10	0.9	Not Attained
CO6	Apply the concepts various theories of failure for finding the cause of failure and to take care of it in the design.	0.60	2.10	0.9	Not Attained

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

CO2: Solving more numerical examples on bending moment and shear force diagrams and conducting tutorial classes.

CO3: Working out more numerical example on bending theory and shear stress distribution and conduction tutorial classes.

CO4: Solving more problems on springs and power transmission and giving assignments and conducting tutorial classes.

CO5: Solving more numerical examples on principal stresses and principal strains with the help of Mohr's circle of stresses for solving two-dimensional stress problems and conducting tutorial classes.

CO6: Need to provide more problems and assignments on applying the concepts of various theories of failure for finding the cause of failure and to take care of it in the design and conducting tutorial classes.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Civil Engineering
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