

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: 2020-2024 Course Name: Strength of Materials Course Code: ACEC02 Semester: III Target Value: 60% (1.8)

Attainment of COs:

Course Outcome		Direct attaiment	Indirect attaiment	Overall attaiment	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.	2.70	2.20	2.6	Attained
CO2	Explain the relationship between bending moment, shear force and rate of loading for understanding response of the member under external loads	2.00	2.30	2.1	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.	1.70	2.20	1.8	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	2.30	0.7	Not Attained
005	Illustrate the concepts of principal stresses and principal strains with the help of Mohr's circle of stresses for solving two-dimensional stress problems.	0.30	2.20	0.7	Not Attained
206	Apply the concepts various theories of failure for finding the cause of failure and to take care of it in the design.	0.30	2.30	0.7	Not Attained

Action Taken:

CO4: Giving assignments and conducting tutorials on applying the torsion equation to springs, solid and hollow circular shafts for computing torsional stiffness of springs and power transmitted by shafts.

CO5: Additional information will be provided on the concepts of principal stresses and principal strains with the help of Mohr's circle of stresses for solving two-dimensional stress problems.

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.

Course Coordinator

Mentor

Head of the Department

Croll Engineering
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