



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:	Theory of Structures	Course Code:	ACEC07
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Analyze propped cantilevers and fixed beams using method of consistent deformation for finding the shear forces and bending moments at various locations and draw shear force and bending moment diagrams	0.00	2.20	0.4	Not Attained
CO2 Illustrate the concepts of clapeyron's theorem of three moments for solving problems on continuous beams including sinking of supports.	0.30	2.20	0.7	Not Attained
CO3 Develop the differential equation for elastic curve for finding slopes and deflections of determinate beams.	0.90	2.20	1.2	Not Attained
CO4 Analyse the trusses using method of joints and sections for computing member forces	0.00	2.20	0.4	Not Attained
CO5 Apply the concepts of energy methods for calculating deflections of simple beams and pin jointed frames.	0.00	2.20	0.4	Not Attained
CO6 Develop the expressions for critical loads and stresses using Euler's and Rankine's methods for knowing behaviour of columns and struts with different end conditions.	0.30	2.20	0.7	Not Attained

Action Taken:

CO1: Giving assignments and more problems on propped cantilevers and fixed beams using the method of consistent deformation for finding the shear forces and bending moments at various locations and drawing shear force and bending moment diagrams

CO2: Additional inputs will be provided on the concepts of clapeyron's theorem of three moments for solving problems on continuous beams including the sinking of supports.

CO3: Need to provide more tutorials on developing the differential equation for elastic curves for finding slopes and deflections of determinate beams.

CO4: Giving assignments and conducting tutorials on analysing the trusses using the method of joints and sections for computing member forces

CO5: Providing more information and assignments on applying the concepts of energy methods for calculating deflections of simple beams and pin-jointed frames.

CO6: Additional more information and assignments on Developing the expressions for critical loads and stresses using Euler's and Rankine's methods for knowing the behavior of columns and struts with different end conditions.

Course Coordinator

Mentor

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