



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. VVS HARNADH PRASAD	Department:	Mechanical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	Finite Element Methods	Course Code:	AMEB22
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the discretization concepts and shape functions of structural members for computing displacements and stresses	1.40	2.10	1.5	Not Attained
CO2	Make use of shape functions of truss and beam elements for obtaining stiffness matrix and load vector to compute nodal displacement, stresses.	0.70	2.20	1	Not Attained
CO3	Apply the discrete models of CST element for estimating displacement and stress.	0.60	2.20	0.9	Not Attained
CO4	Make use of axis-symmetric modelling concepts to solids of revolution for stress approximation.	0.90	2.10	1.1	Not Attained
CO5	Apply numerical techniques for heat transfer problems to compute the temperature gradients under various thermal boundary conditions.	0.00	2.20	0.4	Not Attained
CO6	Develop the governing equations for the dynamic systems to estimate circular frequency and mode shapes, in correlation with modern tools.	0.60	2.20	0.9	Not Attained

Action Taken:

CO1: Additional hours are required for discretization concepts and shape functions

CO2: Extra hours are required for truss and beam elements

CO3: More problems on discrete models of CST

CO4: Additional hours are required for axisymmetric modeling concepts to solids

CO5: Extra hours are required for temperature gradients under various thermal boundary conditions.

CO6: More problems on dynamic systems to estimate circular frequency and mode shapes


Course Coordinator


Mentor


Head of the Department

Head of the Department
Mechanical Engineering
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