



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:	2019-2023
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	0.60	2.30	0.9	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.	0.60	2.30	0.9	Not Attained
CO3	Apply the discreet models of CST element for estimating displacement and stress.	0.90	2.30	1.2	Not Attained
CO4	Make use of axi-symmetric modelling concepts to solids of revolution for stress approximation.	0.90	2.30	1.2	Not Attained
CO5	Apply numerical techniques for heat transfer problems to compute the temperature gradients under various thermal boundary conditions.	0.90	2.30	1.2	Not Attained
CO6	Develop the governing equations for the dynamic systems to estimate circular frequency and mode shapes, in correlation with modern tools.	0.90	2.30	1.2	Not Attained

Action Taken:

CO1: More assignments may be given on application of discretization concepts and shape functions .

CO2: More tutorials may be conducted on obtaining stiffness matrix and load vector.

CO3: More assignments may be given on application of the discreet models of CST element for estimating displacement and stress.

CO4: More tutorials may be conducted on stress approximation of solids of revolution using of axi-symmetric modelling.

CO5: More excercises may be solved on the application of numerical techniques for heat transfer problems.

CO6: More assignemts may be given on estimating circular frequency and mode shapes for dynamic systems.


Course Coordinator


Mentor


Head of the Department

Head of the Department
Mechanical Engineering
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