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

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. GUDE RAMA KRISHNA**	Department:	**Structural Engineering**
Regulation:	**IARE - MT23**	Batch:	**2023-2025**
Course Name:	**Finite Element Analysis**	Course Code:	**BSTD13**
Semester:	**II**	Target Value:	**70% (2.1)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Describe the fundamental concepts and steps of the Finite Element Method for understanding the FEM workflow.	3.00	2.70	2.9	Attained
CO2	Develop stiffness matrices of 1D bar and beam elements for modeling axial and bending behavior in structures.	3.00	2.70	2.9	Attained
CO3	Differentiate between Lagrange and Serendipity elements for accurate FEM modeling and selecting appropriate elements.	3.00	2.60	2.9	Attained
CO4	Model axi-symmetric bodies using strain-displacement relationships for formulating FEM equations in rotational systems.	3.00	2.70	2.9	Attained
CO5	Formulate finite element equations for 4-noded isoparametric quadrilateral plate elements for analyzing bending behavior.	3.00	2.60	2.9	Attained
CO6	Evaluate the applicability of nonlinear analysis techniques for analyzing large deformations in special structures.	3.00	2.70	2.9	Attained

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

Course Coordinator **Mentor** **Head of the Department**

Head of the Department
Civil Engineering
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