

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AEROSPACE ENGINEERING**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**


Name of the faculty:	Mr. PEDDI DILLESWARA RAO	Department:	Aerospace Engineering
Regulation:	IARE - MT23	Batch:	2023-2025
Course Name:	Advanced Finite Element Methods	Course Code:	BAED22
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Understand the concepts behind the weak formulation method for solving problems using FEM	1.80	2.50	1.9	Attained
CO2	Identify the application and characteristics of FEA elements such as bars, beams, plane and isoparametric elements for solving the deformations and stresses	2.60	2.50	2.6	Attained
CO3	Illustrate the element characteristic equation and generation of global equation for solving complex FEM problems	1.20	2.40	1.4	Not Attained
CO4	Analyze the solution obtained for various boundary conditions suitable to a global equation for bars, trusses, beams, circular shafts, heat transfer, fluid flow, axisymmetric and dynamic problems to solve the displacements, stress and strains induced	2.60	2.20	2.5	Attained
CO5	Apply the numerical methods on heat transfer problems for developing thermal stiffness matrix and thermal load vector	3.00	2.30	2.9	Attained
CO6	Apply the governing equations based on virtual work principle for solving the static and dynamic problems	2.60	2.40	2.6	Attained

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

CO3: Additional materials are provided


Course Coordinator
Mentor
Head of the DepartmentHead of the Department
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