



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 - PG21	Batch:	2021-2023
Course Name:	Finite Element Analysis	Course Code:	BSTC13
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:


	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Recall the Concepts of finite element method to obtain displacement matrix for elements, with different loading condition by different methods.	3.00	2.20	2.8	Attained
CO2	Develop and use of 1-D and 2-D element stiffness matrices and load vectors from various methods to solve for displacements and stresses.	2.70	2.20	2.6	Attained
CO3	Identify the application and characteristics of finite analysis of elements such as bars, beams, and plane and Isoparametric 3-D elements.	3.00	1.90	2.8	Attained
CO4	Inspect the principles of membrane and bending analysis for the Buckling of plates and shells.	0.90	2.00	1.1	Not Attained
CO5	Analysis of governing equation for bending by using finite element analysis of different plate and shell elements.	3.00	2.20	2.8	Attained
CO6	Explain the theories of non-linear finite element analysis, and use them to perform analysis of structural elements.	3.00	2.30	2.9	Attained

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

CO4: Conducted a guest lecture on "Sustainable Construction of Long Span Bridges", highlighting structural stability and load-carrying efficiency.


Course Coordinator


Mentor


Head of the Department
Head of the Department
Civil Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal