



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:	Theory of Plates and Shells	Course Code:	BSTC03
Semester:	I	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain analytical solutions of rectangular plates for understanding the behavior of thin plates using Navier's or Levy's method.	2.30	2.10	2.3	Attained
CO2	Apply differential equations in polar coordinates of annular plates for analyzing the behavior of thin plates under various loading conditions.	2.30	1.90	2.2	Attained
CO3	Examine the governing differential equation of rectangular plates on elastic foundations for the design of foundations.	1.60	2.10	1.7	Not Attained
CO4	Apply the general theory in bending of cylindrical shell, simplified method for analysis and design of the shells.	2.30	2.10	2.3	Attained
CO5	Solve the governing equation of plate bending under the combined action of in plane loading and lateral loads for the design of plates.	2.30	2.10	2.3	Attained
CO6	Examine the buckling of rectangular plates by compressive forces acting in one and two directions for the analysis of plates.	0.90	2.50	1.2	Not Attained

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

CO3: Conducted a guest lecture on "Sustainable Construction of Long Span Bridges", emphasizing design considerations of foundations and plate structures.

CO6: Conducted tutorial sessions on the effect of boundary conditions and plate aspect ratio on buckling stress.


Course Coordinator


Mentor


Head of the Department

Civil Engineering
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