



**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:	Theory of Plates and Shells	Course Code:	BSTD07
Semester:	I	Target Value:	70% (2.1)

**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.	3.00	2.20	2.8	Attained
CO2	Apply differential equations in polar coordinates of annular plates for analyzing the behavior of thin plates under various loading conditions.	2.00	2.10	2	Not Attained
CO3	Examine the governing differential equation of rectangular plates on elastic foundations for the design of foundations.	0.80	2.30	1.1	Not Attained
CO4	Apply the general theory in bending of cylindrical shell, simplified method for analysis and design of the shells.	3.00	2.70	2.9	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.	2.40	2.30	2.4	Attained
CO6	Examine the buckling of rectangular plates by compressive forces acting in one and two directions for the analysis of plates.	1.20	2.30	1.4	Not Attained

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

CO2: Demonstrated practical applications of annular plate theory in foundation slabs and circular tank floors.

CO3: Conducted a training program on "The Role of Artificial Intelligence and Machine Learning in Construction Management" to introduce modern analytical and computational tools.

CO6: Delivered focused lectures on plate buckling theory under uniaxial and biaxial compressive loading.

Course Coordinator

Mentor

Head of the Department

Civil Engineering

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