



## STRUCTURAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. M MAHESWARA RAO</b>	Department:	<b>Structural Engineering</b>
Regulation:	<b>IARE - MT23</b>	Batch:	<b>2023-2025</b>
Course Name:	<b>Design of Advanced Concrete Structures</b>	Course Code:	<b>BSTD15</b>
Semester:	<b>II</b>	Target Value:	<b>70% (2.1)</b>

#### Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the behavior of reinforced concrete sections in flexure for understanding the internal force distribution and failure modes.	3.00	2.70	2.9	Attained
CO2	Interpret the moment-rotation characteristics of RC members for assessing ductility and energy absorption capacity.	3.00	2.70	2.9	Attained
CO3	Analyze ribbed and flat slabs for bending moment and shear for determining critical design actions for structural safety.	1.80	2.80	2	Not Attained
CO4	Evaluate shear transfer from slabs to columns, one-way and two-way shear checks for ensuring compliance with IS code provisions.	3.00	2.80	3	Attained
CO5	Design reinforced concrete deep beams and curved beams for providing ductility and load transfer requirements.	3.00	2.70	2.9	Attained
CO6	Detail and design reinforced concrete chimneys for considering stresses due to self-weight, wind load, and temperature differences.	1.00	2.70	1.3	Not Attained

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

CO3: Conducted a seminar on "Recent Developments in Digital Transformation and Intelligent Infrastructure for Structural Health Monitoring" to enhance understanding of advanced analytical and numerical approaches used in modeling rectangular plates on elastic foundations.

CO6: Design-oriented numerical problems were solved focusing on combined stress conditions and serviceability requirements of tall RC chimneys.

**Course Coordinator**

**Mentor**

**Head of the Department**  
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