



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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

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 |

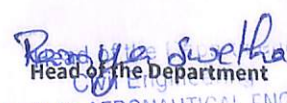
Action Taken Report: (To be filled by the concerned faculty / course coordinator)

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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Dundigal, Hyderabad - 500 043