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

## CIVIL ENGINEERING

## ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|---|---|---|---|
| Name of the faculty: | Dr. U VAMSI MOHAN | Department: | Civil Engineering |
| Regulation: | IARE - R20 | Batch: | 2021-2025 |
| Course Name: | Analysis of Structures | Course Code: | ACEC14 |
| Semester: | V | Target Value: | 60% (1.8) |

**Attainment of COs:**

| | Course Outcome | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|---|---|---|---|---|---|
| CO1 | Outline about various types of arches for selecting appropriate arch in field applications. | 2.40 | 2.30 | 2.4 | Attained |
| CO2 | Make use of energy principles in the analysis of two hinged arches for computing resultant thrust and evaluating secondary stresses due to thermal and rib shortening effects. | 0.30 | 2.30 | 0.7 | Not Attained |
| CO3 | Apply the concepts of Castigliano's theorem for analysing indeterminate trusses. | 2.30 | 2.30 | 2.3 | Attained |
| CO4 | Analyse the continuous beams using the concepts of slope-deflection, moment distribution and Kani's methods for design of rigid frames with and without side sway. | 0.70 | 2.30 | 1 | Not Attained |
| CO5 | Summarize the effects of rolling loads for thorough understanding of the variations in internal forces on bridge girders due to moving vehicular loads | 1.70 | 2.20 | 1.8 | Attained |
| CO6 | Apply the concept of influence line diagrams for analyzing beams, bridge girders and trusses in real time problems. | 0.00 | 2.30 | 0.5 | Not Attained |

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

CO2: Conduct seminars on energy principles, arch analysis, thermal effects and conducting extra classes on problems solving

CO4: Conduct workshops integrating software simulations to enhance understanding of beam analysis methods for frame design.

CO6: Conduct interactive workshops with practical exercises on creating and analyzing influence line diagrams for beams, girders, and trusses.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Civil Engineering
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