



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## STRUCTURAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. JSR PRASAD	Department:	Structural Engineering
Regulation:	IARE - R18	Batch:	2018-2020
Course Name:	ADVANCED STEEL DESIGN	Course Code:	BSTB13
Semester:	II	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Learn the behavior and design of structural steel components like truss and frame structures	2.30	2.40	2.3	Attained
CO2	Explain an educational and comprehensive experience in the design of simple steel structures	0.90	2.30	1.2	Not Attained
CO3	Obtain basic knowledge about the design and failure mode of steel structural members after finished this course.	0.60	2.40	1	Not Attained
CO4	Analyze wind loads on buildings and design truss bridges.	0.90	2.30	1.2	Not Attained
CO5	Analyze and design of tower structures.	0.90	2.40	1.2	Not Attained
CO6	Analyze and design various welded and bolted connections	0.90	2.40	1.2	Not Attained

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

CO2: Organized guided problem-solving sessions where students designed beams, columns, and simple frames according to Indian Standards (IS 800).

CO3: Conducted classroom demonstrations explaining common failure modes of steel members, including buckling, yielding, and fracture.

CO4: Arranged guest lectures by industry professionals on designing bridges and buildings considering environmental loads.

CO5: Conducted interactive tutorials using structural analysis software to model towers and evaluate stress distribution and deflections.

CO6: Facilitated case-study reviews of existing steel structures to understand connection detailing, performance, and failure modes.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Civil Engineering  
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