



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## STRUCTURAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PRAVEENA RAO	Department:	Structural Engineering
Regulation:	IARE - MT23	Batch:	2023-2025
Course Name:	Design of Prestressed Concrete Structures	Course Code:	BSTD26
Semester:	III	Target Value:	70% (2.1)


#### Attainment of COs:


Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Explain the concept of methods of pre and post tensioning for the designing of prestressed concrete structural elements.	3.00	2.00	2.8	Attained
CO2 Determine the total prestress loss using cumulative effects of all individual loss mechanisms.	3.00	2.40	2.9	Attained
CO3 Evaluate stress distribution and kern line location using flexural analysis methods in PSC beams.	1.80	2.10	1.9	Not Attained
CO4 Analyze principal tension and compression stresses using fundamental shear concepts in prestressed concrete.	3.00	2.00	2.8	Attained
CO5 Design anchorage zone reinforcement for effective stress transfer in prestressed concrete members.	3.00	2.40	2.9	Attained
CO6 Apply deflection control methods and prefabrication technology concepts for effective prestressed concrete design.	2.40	2.30	2.4	Attained

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

CO3: Conducted a seminar on "Sustainable Construction Practices: Green Building Design" to strengthen students' understanding of stress distribution and kern line concepts in PSC beams through efficient material usage.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Civil Engineering  
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