



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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