



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Ms. V N VANDANA REDDY	Department:	Structural Engineering
Regulation:	IARE - R18	Batch:	2020-2022
Course Name:	DESIGN OF PRE STRESSED CONCRETE STRUCTURES	Course Code:	BSTB22
Semester:	III	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Explain the concepts of stresses and strains developed within the structures subjected to different loads and their combinations for understanding the behavior of prestressed concrete structures	3.00	2.30	2.9	Attained
CO2 Elucidate the concept of methods of pre and post tensioning and the systems of prestressing for the designing of prestressed concrete structural elements	1.60	2.40	1.8	Attained
CO3 Estimate the losses in the prestress and post tensioned members for the efficient design of prestressed concrete structures.	0.90	2.40	1.2	Not Attained
CO4 Design prestressed and post tensioned structural elements using Indian standard code method.	0.90	2.50	1.2	Not Attained
CO5 Summarize the concepts of transfer of prestress in pre and post tensioned members by bond and transmission length using Indian standard code method.	0.90	2.30	1.2	Not Attained
CO6 Design the composite prestressed concrete structural elements subjected to flexure and shear for designing multi storied structures	0.90	2.40	1.2	Not Attained

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

CO3: Organized problem-solving sessions to estimate total prestress loss in various structural members.

CO4: Assigned numerical exercises to practice IS code-based design for pre-tensioned and post-tensioned elements.

CO5: Demonstrated step-by-step calculation of transmission length, bond stresses, and anchorage zones as per IS 1343.

CO6: Demonstrated step-by-step IS code-based design procedures for beams, slabs, and girders in multi-storied structures.

V N Vandana
Course Coordinator

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Mentor

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Head of the Department

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