



STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. JSR PRASAD	Department:	Structural Engineering
Regulation:	IARE - PG21	Batch:	2021-2023
Course Name:	Design of Pre stressed Concrete Structures	Course Code:	BSTC26
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.	2.30	2.10	2.3	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	0.90	2.10	1.1	Not Attained
CO3	Estimate the losses in the prestress and post tensioned members for the efficient design of prestressed concrete structures.	0.90	2.30	1.2	Not Attained
CO4	Design prestressed and post tensioned structural elements using Indian standard code method.	0.90	2.00	1.1	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	2.40	1.2	Not Attained
CO6	Design the composite prestressed concrete structural elements subjected to flexure and shear for designing multi storied structures.	0.90	2.00	1.1	Not Attained

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

CO2: Conducted workshop on "Dynamic Analysis and Design seismic resistant building for Safety" by highlighting the role of prestressed concrete in enhancing seismic resistance of buildings.

CO3: Conducted tutorial sessions with numerical examples on estimating total prestress losses in pre- and post-tensioned members.


CO4: Assigned numerical problems to reinforce application of IS code for tendon stress, losses, and reinforcement detailing.

CO5: Delivered lectures explaining the mechanism of prestress transfer in pre- and post-tensioned members.

CO6: Assigned problem sets to reinforce application of IS code methods for flexure, shear, and serviceability checks.


Course Coordinator


Mentor


Head of the Department
Civil Engineering
INSTITUTE OF AERONAUTICAL
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