INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. CH VENUGOPAL REDDY**	Department:	**Structural Engineering**
Regulation:	**IARE - R18**	Batch:	**2018-2020**
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	2.40	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	1.00	2.40	1.3	Not Attained
CO3	Estimate the losses in the prestress and post tensioned members for the efficient design of prestressed concrete structures.	0.70	2.40	1	Not Attained
CO4	Design prestressed and post tensioned structural elements using Indian standard code method.	1.60	2.60	1.8	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	2.30	2.60	2.4	Attained

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

CO2: Provided numerical worksheets and assignments focused on designing prestressed members using various tensioning methods.

CO3: Organized problem-solving sessions where students calculated prestress losses in pre-tensioned and post-tensioned members using IS:1343 guidelines.

CO5: Arranged guest lectures by structural engineers on effective prestress transfer techniques for safe and efficient design.

Course Coordinator **Mentor** **Head of the Department**

Civil Engineering
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