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

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. N VENKAT RAO**	Department:	**Structural Engineering**
Regulation:	**IARE - R18**	Batch:	**2020-2022**
Course Name:	**ADVANCED DESIGN OF FOUNDATIONS**	Course Code:	**BSTB17**
Semester:	**II**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Discover standardized method of soil exploration for classifying the soil core type and to make decision on type and depth of foundation.	2.30	2.40	2.3	Attained
CO2	Evaluate the bearing capacity of the foundation soil for selecting the suitable type and depth foundation and to make surface from the settlement.	2.30	2.30	2.3	Attained
CO3	Inspect the pile group capacity and settlement of the foundation soil under the action of eternal load for selecting the accurate type of the pile foundation.	0.90	2.40	1.2	Not Attained
CO4	Examine the theories and recommended provisions to avoid underground structures free from the collapse and tilting.	0.90	2.40	1.2	Not Attained
CO5	Select most accurate type and method for laying the sheeting and bracing related to shallow and deep cuts to make sure the structures safe from the uplift pressure.	0.90	2.30	1.2	Not Attained
CO6	Discover the soil-structure interaction under the shock load and vibration loads to ensure structures free from the failures due to the action of sudden and earthquake loads.	0.90	2.50	1.2	Not Attained

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

CO3: Organized problem-solving sessions to compute settlement of pile groups considering interaction effects.
CO4: Assigned numerical exercises to compute earth pressures, lining stresses, and safety factors for underground structures.
CO5: Conducted tutorials to clarify code recommendations, construction practices, and safety measures.
CO6: Provided remedial exercises and real-world examples to ensure earthquake- and shock-resistant design.

Course Coordinator

Mentor

Head of the Department

Civil Engineering
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