ACE35

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

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. S SELVAPRAKASH**	Department:	**Civil Engineering**
Regulation:	**IARE - UG20**	Batch:	**2021-2025**
Course Name:	**Foundation Engineering**	Course Code:	**ACEC35**
Semester:	**VII**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Select comprehensive soil exploration and sampling utilizing various methods, resulting in accurate soil characterization for informed engineering decision-making.	0.90	2.10	1.1	Not Attained
CO2	Analyze the stability of infinite and finite earth slopes using various methods ensuring the determination of appropriate factor of safety and effective slope stability measures.	0.90	2.20	1.2	Not Attained
CO3	Utilize theoretical principles and analytical methods to proficiently analyze and design retaining walls	0.90	2.10	1.1	Not Attained
CO4	Apply sound engineering principles to design and analyze shallow and deep foundations.	0.90	2.10	1.1	Not Attained
CO5	Apply comprehensive knowledge of pile foundations to design and analyze shallow and deep foundations.	0.90	2.10	1.1	Not Attained
CO6	Apply principles of analysis and design to expertly build wells of various shapes, integrating components, and adhering to IRC guidelines.	0.90	2.10	1.1	Not Attained

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

CO1:

- Organized laboratory sessions for soil sampling, classification, and testing to reinforce accurate soil characterization techniques.

CO2:

- Conducted classroom sessions and practical exercises on slope stability analysis using methods such as Swedish Circle, Bishop's Method, and Fellenius Method.

CO3: Conducted classroom and tutorial sessions on the theoretical principles of retaining wall design, including earth pressure theories and structural analysis.

CO4: Provided hands-on design assignments and numerical problems to apply engineering principles for load calculations, bearing capacity, and settlement analysis.

CO5: Provided hands-on assignments and case studies requiring students to design and analyze pile groups, single piles, and combined foundation systems.

CO6: Organized project-based learning and case studies to integrate theoretical knowledge with real-world construction practices.

Course Coordinator

Mentor

Head of the Department

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