



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. GUDE RAMA KRISHNA	Department:	Civil Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
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.	1.60	2.20	1.7	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	3.00	2.20	2.8	Attained
CO4	Apply sound engineering principles to design and analyze shallow and deep foundations.	1.60	2.30	1.7	Not Attained
CO5	Apply comprehensive knowledge of pile foundations to design and analyze shallow and deep foundations.	0.90	2.20	1.2	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	2.20	1.2	Not Attained

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

CO1: Introduced case studies on soil investigation reports to improve interpretation and decision-making skills.

CO2: Provided numerical problem sets on different methods (Fellenius, Bishop's method) to improve analytical skills.

CO4: Arranged case study discussions on foundation failures and improvements to strengthen practical understanding.

CO5: Conducted an workshop on "Future Scope: Exploring Emerging Technologies" to introduce advanced foundation solutions such as smart piles, geosynthetics, and sensor-based monitoring systems.

CO6: Introduced case studies on bridge foundation failures and retrofitting techniques to improve practical understanding.

Course Coordinator

Mentor

Head of the Department
Civil Engineering

INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500043