



Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. GUDE RAMA KRISHNA	Department:	Civil Engineering 2021-2025	
Regulation:	IARE - UG20	Batch:		
Course Name:	Ground Improvement Techniques	Course Code:	ACEC47	
Semester:	VIII	Target Value:	60% (1.8)	

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Recall the problems associated with existing ground conditions to propose a suitable method for ground improvement.	0.90	2.30	1.2	Not Attained
CO2	Explain the various methods of mechanical modification to increase the bearing capacity of soil.	0.90	2.30	1.2	Not Attained
соз	Interpret the existing ground condition for design of the dewatering systems to control the seepage of ground water.	0.90	2.30	1.2	Not Attained
CO4	Select the appropriate geosynthetics to increase the bearing capacity of the subgrade soil.	0.90	2.30	1.2	Not Attained
CO5	Identify the suitable grouting technique based on the in-situ evidences to prevent the foundation settlements.	0.90	2.30	1.2	Not Attained
CO6	Choose the appropriate soil -reinforcement techniques to increase the stability of soils.	0.90	2.30	1.2	Ņot Attained

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

CO1: Conducted a seminar on "Digital Twin-Enabled Resilient and Sustainable Infrastructure" demonstrating how existing ground condition problems can be analyzed.

CO2: Delivered tutorials on mechanical stabilization methods, highlighting the principles and applications for increasing soil bearing

CO3: Provided case studies demonstrating successful control of groundwater seepage in various soil conditions.

CO4: Arranged laboratory experiments to observe improvements in compaction, shear strength, and settlement behavior using

CO5: Organized field demonstrations showing application methods of different grouts in foundations and embankments.

CO6: Conducted a seminar on "Al in Sustainable Construction: Risk-Aware, Data-Driven Development" highlighting the selection of appropriate soil-reinforcement techniques and AI-based approaches to enhance soil stability.

Course Coordinator

Dundigal, Hyder