



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. R RAMYA SWETHA	Department:	Civil Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
Course Name:	Geotechnical Engineering	Course Code:	ACEC24
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	List out the procedure of soil formation, soil structure, clay mineralogy and index proportion for classifying the soil types.	0.90	2.50	1.2	Not Attained
CO2	Demonstrate the concepts of permeability and seepage flow net for estimating seepage losses from earthen dams.	0.60	2.50	1	Not Attained
CO3	Summarize stress distribution in soils at different loading conditions based on various theories for estimating intensity of pressure on soil. for estimating intensity of pressure on soil.	0.90	2.50	1.2	Not Attained
CO4	Relate the effect of compaction and consolidation pressures for estimating the total settlement, time rate of settlement	0.90	2.50	1.2	Not Attained
CO5	Recognize different stages of consolidation for predicting stress history on clays.	0.90	2.50	1.2	Not Attained
CO6	Compare Mohrs- columbs failure theories and lab tests for determining shear strength of soils at various drainage conditions.	0.90	2.40	1.2	Not Attained

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

CO1: Conducted remedial classes and visual presentations on soil formation, clay mineralogy, and soil structure to improve conceptual clarity.

CO2: Introduced lab-based experiments and numerical practice to enhance application of seepage analysis concepts.

CO3: Provided step-by-step numerical problems and case studies to improve understanding of pressure distribution in soils.

CO4: Delivered remedial lectures on compaction and consolidation concepts with emphasis on settlement analysis.

CO5: Conducted concept-oriented sessions on consolidation stages and stress history of clays using e-log p curves.

CO6: Conducted an expert lecture on "Smart City Development through Geospatial Technologies" to relate geotechnical investigations with real-time data analysis for soil behavior and shear strength assessment.


Course Coordinator


Mentor


Head of the Department
Civil Engineering

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