



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PRAVEENA RAO	Department:	Civil Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
Course Name:	Transportation Engineering	Course Code:	ACEC25
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Recall the fundamentals of highway engineering for effective planning and development of highways based on the mission requirement.	1.60	2.50	1.8	Attained
CO2	Identify highway intersection at urban areas for promoting continuous flow without congestions.	1.60	2.50	1.8	Attained
CO3	Analyze traffic signals at intersections for avoiding conflicts and promoting free flow of traffic.	0.90	2.50	1.2	Not Attained
CO4	Classify the various traffic parameters considered in traffic study for regulating traffic at various controlled and uncontrolled intersections.	0.90	2.50	1.2	Not Attained
CO5	Elucidate the mechanical properties of pavement construction materials for enhancing serviceability and durability of highway pavements.	0.90	2.50	1.2	Not Attained
CO6	Analyze the stresses induced in rigid pavements considered for designing, CC pavements to improve their performance.	0.90	2.50	1.2	Not Attained

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

CO3: Provided numerical problem sets on signal timing, cycle length, and delay analysis to improve analytical skills.

CO4: Conducted an workshop on "Smart Civil Projects: Leveraging Digital Twin Technology" to demonstrate real-time traffic data collection and classification of traffic parameters at intersections.

CO5: Provided laboratory demonstrations and hands-on tests (CBR, Marshall Stability, Aggregate Impact) to enhance practical understanding.

CO6: Conducted remedial sessions on stress analysis in rigid pavements (Westergaard's theory) with step-by-step numerical solutions.

Course Coordinator

Mentor

Head of the Department

Civil Engineering
AERONAUTICAL
Dundigal, Hyderabad