



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**CIVIL ENGINEERING**

**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	Mr. K ANAND GOUD	Department:	Civil Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
Course Name:	Reinforced Concrete Structures Design and Drawing	Course Code:	ACEC16
Semester:	V	Target Value:	60% (1.8)

**Attainment of COs:**

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the concept of Stress block parameters and use the design concept of working stress method, limit state method for designing different structural components.	3.00	2.50	2.9	Attained
CO2	Recall basic concepts of singly reinforced, doubly reinforced, T, L beam, material stress-strain curves, and safety factors to know the properties of concrete structure.	2.70	2.50	2.7	Attained
CO3	Explain the concept of bond, anchorage and development length and section for shear and torsion for safe designing of residential, commercial and industrial structures.	2.00	2.50	2.1	Attained
CO4	Solve design of reinforced concrete slab sections as per IS: 456-2000 for obtaining the reinforcement details in load bearing members.	0.90	2.50	1.2	Not Attained
CO5	Develop the concept of Axial loading uni-axial and bi-axial bending of vertically loaded members to obtain reinforcement details.	2.30	2.50	2.3	Attained
CO6	Design reinforcement structural sections for isolated, Combined footing and staircase for obtaining the reinforcement details	0.60	2.50	1	Not Attained

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

CO4: Conducted hands-on design sessions where students solved one-way and two-way slab problems using IS 456:2000 provisions and prepared reinforcement detailing sheets.

CO6: Delivered tutorials on drawing structural detailing of footings and staircases using AutoCAD as per SP-34 and IS code recommendations.

Course Coordinator

Mentor

Head of the Department

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