



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. N VENKAT RAO	Department:	Structural Engineering
Regulation:	IARE - PG21	Batch:	2021-2023
Course Name:	Advanced Concrete Technology	Course Code:	BSTC08
Semester:	I	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the basic physical and chemical properties of construction materials for determining quality of concrete.	0.90	1.90	1.1	Not Attained
CO2	Outline the workability and manufacturing process of concrete for obtaining economical and durable concrete.	0.90	2.10	1.1	Not Attained
CO3	Inspect the impact of water/cement ratio on strength and durability of concrete by measuring its hardened strength.	0.90	2.30	1.2	Not Attained
CO4	Identify the materials and technics of repair for rehabilitation and retrofitting of structures.	0.90	2.20	1.2	Not Attained
CO5	Develop the most economical and eco-friendly concrete mix based on standard methods for producing quality of concrete.	0.90	2.40	1.2	Not Attained
CO6	Examine special concretes and new generation concrete for satisfying the future needs of industry in real time.	0.90	2.20	1.2	Not Attained

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

CO1: Conducted discussions on sustainability and cost-effectiveness by evaluating material properties for eco-friendly concrete.

CO2: Conducted practical sessions showing proper techniques for mixing, compaction, and curing of concrete specimens.

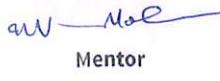
CO3: Conducted laboratory experiments to cast concrete specimens with varying water/cement ratios.

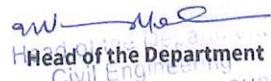
CO4: Demonstrated techniques for crack injection, epoxy bonding, and surface repairs in concrete structures.

CO5: Conducted a guest lecture on Innovative "Construction Practices in Green Buildings", to develop eco-friendly concrete mixes using supplementary cementitious materials and recycled aggregates.

CO6: Integrated standard codes and guidelines for mix design and application of special concretes in real projects.


Course Coordinator


Mentor


Head of the Department
Civil Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad