INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. NANNA SRI RAMYA**	Department:	**Civil Engineering**
Regulation:	**IARE - UG20**	Batch:	**2021-2025**
Course Name:	**Repair, Rehabilitation and Retrofitting of Structures**	Course Code:	**ACEC51**
Semester:	**VIII**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the damage mechanism and preventive measures for protecting the structure from damages.	0.90	2.30	1.2	Not Attained
CO2	Interpret the importance and facets of maintenance for scheduling regular inspection of residential and industrial structures.	0.90	2.30	1.2	Not Attained
CO3	Summarize corrosion protection methods of steel and deterioration of materials for protecting structures from rusting and fatigue failures.	0.90	2.30	1.2	Not Attained
CO4	Identify the materials and technics of repair for rehabilitation and retrofitting of structures.	0.90	2.30	1.2	Not Attained
CO5	Make use of non-destructive testing procedures, demolition methods for assessing and improving the performance of structures.	0.90	2.30	1.2	Not Attained
CO6	Select uitable engineered and non-engineered techniques in existing structures for strengthening and demolition.	0.90	2.20	1.2	Not Attained

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

CO1: Demonstrated preventive protection techniques such as surface coatings, cathodic protection, and waterproofing treatments.
CO2: Conducted a seminar on "Concrete Repair and Retrofitting Technology for Buildings" highlighting the importance of systematic maintenance planning and periodic inspection for residential and industrial structures.
CO3: Provided case studies of structural failures due to corrosion and fatigue to illustrate preventive strategies.
CO4: Organized demonstrations of retrofitting techniques including jacketing, external prestressing, and shotcrete application.
CO5: Provided case studies of structures where NDT and selective demolition improved safety and service life.
CO6: Arranged practical sessions to evaluate structural elements and choose suitable interventions for repair, strengthening, or controlled demolition.

Course Coordinator **Mentor** **Head of the Department**

INSTITUTE OF AERONAUTICAL ENGINEERING