INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**Dr J. S. R. Prasad**	Department:	**CE**
Regulation:	**IARE - R16**	Batch:	**2017 – 2021**
Course Name:	**Environmental Engineering**	Course Code:	**ACE015**
Semester:	**VII**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Identify the importance of water demand including types of demand according to population forecasts for supplying the water to meet the public needs.	0.90	2.60	1.2	Attainment target not reached
CO2	Understand the general layout of various units in waste water treatment plant (WWTP) and treatment process to remove the large suspended particles from waste water and for reuse.	0.90	2.60	1.2	Attainment target not reached
CO3	Understand the concept of conservancy and water carriage systems for arranging the pipe line system to transfer the sewage and storm water to treatment plant	2.30	2.70	2.4	Attainment target reached
CO4	Discuss the need for ultimate disposal of sewage, and dilution to allow human and industrial effluents to be disposed of without damage to the natural environment	0.90	2.50	1.2	Attainment target not reached
CO5	Understand the waste water treatment process via primary sedimentation and secondary sedimentation for removing the suspended particle from the collected waste water.	0.90	2.70	1.3	Attainment target not reached
CO6	Choose the design concept of oxidation ponds, sludge digestion tanks and septic tanks working principles for ultimate disposal of sludge	1.60	2.70	1.8	Attainment target reached

Action taken report:

CO1: Provide more learning resources and conduct extra lectures on water demand including types of demand according to population forecasts.

CO2: Provide more learning resources and conduct extra lectures on layout of various units in waste water treatment plant (WWTP) and treatment process to remove the large suspended particles.

CO4: Provide more learning resources and conduct extra lectures on ultimate disposal of sewage, and dilution to allow human and industrial effluents to be disposed of without damage to the natural environment.

CO5: Provide more learning resources and conduct extra lectures on waste water treatment process via primary sedimentation and secondary sedimentation for removing the suspended particle.

Course Coordinator **Mentor** **HOD**

Head of the Department
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