



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## CIVIL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

|                      |                           |               |                   |
|----------------------|---------------------------|---------------|-------------------|
| Name of the faculty: | Mr. R SURESH KUMAR        | Department:   | Civil Engineering |
| Regulation:          | IARE - R20                | Batch:        | 2020-2024         |
| Course Name:         | Environmental Engineering | Course Code:  | ACEC34            |
| 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.                       | 3.00              | 2.20                | 2.8                | Attained     |
| CO2 Illustrate the general layout of various units in waste water treatment plant and treatment process to remove the large suspended particles from waste water and for reuse. | 2.30              | 2.30                | 2.3                | Attained     |
| CO3 List out the various concepts of conservancy and water carriage systems for arranging the pipe line system to transfer the sewage and storm water to treatment plant.       | 1.60              | 2.20                | 1.7                | Not Attained |
| CO4 Discuss the need for the ultimate disposal of sewage and dilution to allow human and industrial effluents to be disposed of without damage to the natural environment.      | 0.90              | 2.20                | 1.2                | Not Attained |
| CO5 Discover the waste water treatment process via primary sedimentation and secondary sedimentation for removing the suspended particle from the collected waste water.        | 1.60              | 2.20                | 1.7                | Not Attained |
| CO6 Choose the design concept of oxidation ponds, sludge digestion tanks and septic tanks working principles for ultimate disposal of sludge.                                   | 1.60              | 2.20                | 1.7                | Not Attained |

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

CO3: Conducting additional lectures focusing on the theoretical foundations and practical applications of conservancy and water carriage systems.

CO4: Arranged Industrial visits to local wastewater treatment facilities to give students a firsthand look at the processes involved in the ultimate disposal of sewage.

CO5: Inviting professionals from the wastewater treatment industry to give guest lectures on the latest advancements and best practices in sedimentation processes.

CO6: Conducting guest lectures on the design concepts for the ultimate disposal of sludge.

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Civil Engineering  
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