



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Ms. DURGA SHARMA	Department:	Civil Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Hydraulics and Hydraulic Machinery	Course Code:	ACEC08
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the differences between lined, unlined canals, and uniform, non - uniform flows for the designing of open channels	0.90	2.40	1.2	Not Attained
CO2	Summarize the geometrical properties of the open channels and establish the relationships among them for the designing of the most economical sections.	0.90	2.30	1.2	Not Attained
CO3	Apply the concept of boundary layer and viscosity theorem to avoid flow separation problems.	0.90	2.40	1.2	Not Attained
CO4	Analyse the lift and drag forces on different shapes of the objects using various methods applicable for the separation of the boundary layer	0.90	2.30	1.2	Not Attained
CO5	Utilize the Principal of angular momentum for determining effect of hydrodynamic force of jets.	0.90	2.40	1.2	Not Attained
CO6	Explain working principle of different types of turbines for designing a hydro power plant.	0.90	2.30	1.2	Not Attained

Action Taken:

CO1: Giving assignments and conducting tutorials on explaining the differences between lined, unlined canals, and uniform, non-uniform flows for the designing of open channels

CO2: Providing more information and assignments on the geometrical properties of the open channels and establish the relationships among them for the designing of the most economical sections.

CO3: Additional inputs will be provided on Apply the concept of boundary layer and viscosity theorem to avoid flow separation problems.

CO4: Need to provide more problems and assignments on Analyse the lift and drag forces on different shapes of the objects using various methods applicable for the separation of the boundary layer

CO5: Providing more information and assignments on Utilize the Principal of angular momentum for determining effect of hydrodynamic force of jets.

CO6: Conduct tutorials on Explaining the working principle of different types of turbines for designing a hydropower plant.

Course Coordinator

Mentor

Head of the Department
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