

**CIVIL ENGINEERING****ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	Ms. NANNA SRI RAMYA	Department:	Civil Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	Hydraulic Engineering	Course Code:	ACEB14
Semester:	V	Target Value:	60% (1.8)

Attainment of COs:


	Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Recall basic fluid properties and identify appropriate fluid systems for analysis of the flow in closed pipes.	3.00	2.30	2.9	Attained
CO2	Choose the types of flows such as laminar, turbulent using Reynolds's experiment to reduce the losses in smooth and rough pipes by Moody's diagram	1.00	2.70	1.3	Not Attained
CO3	Apply the concept of boundary layer and viscosity theorem, the lift and drag forces on different shapes of the objects using various methods applicable to avoid the flow separation problems.	1.60	2.50	1.8	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.	1.60	2.70	1.8	Attained
CO5	Summarize the geometrical properties of the open channels and establish the relationships among them for the designing of the most economical sections.	2.00	2.60	2.1	Attained
CO6	Outline the ideas and importance of critical flow parameters such as specific energy, specific force, and specific depth, Hydraulic jump for classification of surface profiles in gradually varied flows.	2.00	2.70	2.1	Attained

Action taken report:**CO2:**

Need to provide more problems and assignments on types of flows such as laminar, turbulent using Reynolds's experiment which enables the students to gain more problem-solving skills.


Course Coordinator


Mentor


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