



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. A SOMAIAH	Department:	Mechanical Engineering
Regulation:	IARE - R20	Batch:	2021-2025
Course Name:	Fluid Mechanics and Hydraulic Machines	Course Code:	AMEC12
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Relate the basic properties, various types and patterns of fluid flow configurations that are encountered in fluid flows.	0.60	2.00	0.9	Not Attained
CO2 Apply the basic laws of conservation for various phenomena of fluid flow systems by understanding appropriate parametric assumptions and limitations	2.30	2.00	2.2	Attained
CO3 Outline the regimes and separation of boundary layer during external fluid flow systems	0.90	2.00	1.1	Not Attained
CO4 Compare the total and hydraulic gradient lines for distinct cases of losses during a closed conduit fluid flow systems	0.70	2.00	1	Not Attained
CO5 Demonstrate the theories, phenomena and working principles of hydraulic machines	2.10	2.00	2.1	Attained
CO6 Make use of the dimensionless parameters, model analysis to analyze prototypes of hydraulic pumps.	1.40	2.00	1.5	Not Attained

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

CO1: Introduce real-world applications and case studies that highlight the relevance of fluid flow configurations in various industries. This could include examples from engineering, environmental science, or biomedical applications.

CO3: Utilize visual aids, multimedia presentations, and animations to illustrate complex fluid flow concepts. Visual representations can enhance understanding and retention of information.

CO4: Include well-labeled and visually appealing graphical representations of the total and hydraulic gradient lines for each distinct case. Graphs can help students visualize the changes in gradients and understand the impact of losses.

CO6: Provide real-world data from prototype hydraulic pumps and guide students through the process of applying dimensionless parameters for analysis. Compare the performance of different prototypes based on these parameters.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Mechanical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043