



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. HANUMANPRASAD PANDIRI	Department:	Civil Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Engineering Chemistry Laboratory	Course Code:	AHSD05
Semester:	II	Target Value:	70% (2.1)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Use conductivity meter and potentiometer for measurement of conductance and electromotive force of solutions	1.20	0.00	1.2	Not Attained
CO2 Use PH meter for measurement of Strength of Acidic Solutions.	1.20	0.00	1.2	Not Attained
CO3 Make use of the principles of water analysis for domestic and industrial applications.	1.20	0.00	1.2	Not Attained
CO4 Predict the Properties of polymeric materials by synthesizing the monomers	1.20	0.00	1.2	Not Attained
CO5 Use different types of lubricants to know its properties for the proper lubrication of machinery in industries.	1.20	0.00	1.2	Not Attained
CO6 Interpret the absorption tendency of solids or liquids by using Colorimetry and spectroscopy techniques.	1.20	0.00	1.2	Not Attained

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

CO1: Laboratory experiments will be conducted on conductivity meter and potentiometer usage, focusing on measuring solution conductance and electromotive force (EMF).
CO2: Laboratory sessions will be conducted on pH meter calibration and measurement, focusing on determining the strength of acidic solutions.
CO3: Laboratory experiments on water quality analysis will be conducted, assessing parameters like pH, hardness, turbidity, and dissolved solids.
CO4: Laboratory experiments on polymer synthesis from monomers will be conducted, analyzing factors like molecular weight, tensile strength, and thermal stability of polymeric materials.
CO5: Laboratory experiments on lubricant testing will be conducted to analyze properties like viscosity, thermal stability, and wear resistance.
CO6: Laboratory sessions on colorimetry and spectroscopy will be conducted to analyze the absorption tendencies of solids and liquids.

Course Coordinator

Mentor

Head of the Department
Civil Engineering
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