

II YEAR II SEM

15AME15-FLUID MECHANICS AND HYDRAULIC MACHINERY LAB**L T P C**
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Objective: The object of the course to make the students understand the fluid flow concepts and get familiarity with flow measuring devices.

Syllabus :

1. Impact of Jets on Vanes.
2. Performance test on Pelton wheel.
3. Performance test on Francis turbine.
4. Performance test on Kaplan turbine.
5. Performance test on Single Stage Centrifugal Pump.
6. Performance test on Multi Stage Centrifugal Pump.
7. Performance test on Reciprocating Pump.
8. Calibration of Venturimeter.
9. Calibration of Orifice meter.
10. Determination of Friction factor for a given Pipe Line.
11. Determination of Loss of Head due to Sudden Contraction in a Pipeline.
12. Turbine Flow meter.

Course outcomes:-

Students who successfully complete this course will have demonstrated an ability to:

- Identify, name, and characterize flow patterns and regimes.
- Understand basic units of measurement, convert units, and appreciate their magnitudes.
- Utilize basic measurement techniques of fluid mechanics.
- Discuss the differences among measurement techniques,

ENGINEERING

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