

## Fluid Mechanics And Hydraulic Machinery Lab

**Objective:** In this lab the experiments are performed to measure various coefficient of discharges of various devices, efficiency of various turbines and pumps.



**Sections Handled:** II Year

**Major Equipment Details:**

Sl.No	Equipment Name	Qty
1.	Venturi meter setup	1
2.	Orifice meter setup	1
3.	External Mouth Piece setup	1
4.	Friction factor setup	1
5.	Bernoulli's Theorem setup	1
6.	Impact of jet on vanes setup	1
7.	Pelton wheel turbine	1
8.	Francis turbine	1
9.	Centrifugal pump	1
10.	Reciprocating pump	1
11.	Open Channel Flow	1
12.	Multi Stages Centrifugal Form	1

**Faculty In charge with qualification :** K.P.Manjusha-M.Tech

**Lab Technical name with qualification:** B.Siva Rama Krishna-D.C.E

**Experiment list as per curriculum:**

1. Calibration of Venturi meter & Orifice meter
2. Determination of  $C_d$  for a small orifice by constant head method
3. Determination of  $C_d$  for an external mouth piece by variable head method
4. Determine co-efficient of loss of head in a sudden contraction and Friction Factor
5. Verification of Bernoulli's theorem
6. Impact of Jet on Vanes
7. Performance test on Pelton wheel turbine
8. Performance test on Francis turbine
9. Efficiency test on Centrifugal pump
10. Efficiency test on Reciprocating pump