

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.	Kaplan 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: Md. Naziullah - ITI

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