

B.Tech II Year II Semester

Course Structure

L	T	P	C
0	0	3	1.5

FLUID MECHANICS & HYDRAULIC MACHINES LAB

Course code:P18CEL04

Internal marks : 40

External marks : 60

List of Experiments

1. Determination of coefficient of discharge for Venturi meter.
2. Determination of coefficient of discharge for Orifice meter.
3. Determination of Coefficient of discharge for a small orifice by a constant head method.
4. Determination of Coefficient of discharge for an external mouth piece by variable head method.
5. Determination of Coefficient of loss of head in a sudden contraction and
6. Determination of friction factor of head loss due to friction in circular pipes
7. Verification of Bernoulli's equation.
8. Impact of jet on vanes
9. Efficiency test on Pelton wheel turbine
10. Efficiency test on Francis turbine.
11. Efficiency test on centrifugal pump.
12. Efficiency test on reciprocating pump.

List of Equipment:

1. Venturi meter setup.
2. Orifice meter setup.
3. Small orifice setup.
4. External mouthpiece setup.
5. Friction factor test setup.
6. Bernoulli's theorem setup.
7. Impact of jets.
8. Pelton wheel
9. Francis turbines.
10. Centrifugal pumps
11. Reciprocating pumps

Note : Any 10 experiments must be completed

