CH163	FLUID AND PARTICLE MECHANICS LAB	L	T	P	C	Int	Ext
		-	-	3	1.5	30	70

Semester II [First Year]

COURSE OBJECTIVES:

1. Experimentation, observation and analysis of physical phenomena in Fluid Mechanics
2. Training students in measurement of the physical properties of fluids.
3. Provide experience in collection, analysis, interpretation and presentation of experimental data & Precision analysis and equipment limitations.
4. To measure the frictional losses in laminar and turbulent pipe flows.

COURSE OUTCOMES:

After the successful completion of the course,students are able to

1. Collect quality raw data from an operation.
2. Compare observed with predicted performance.
3. Communicate the results of their analysis effectively in written and oral reports.
4. Function effectively in a lab team.

EXPERIMENTS:

1. Determination of Friction factor
2. Determination of Minor losses
3. Orifice meter
4. Venturi meter
5. Open Orifice
6. V-Notch
7. Rectangular Notch
8. Centrifugal Pump Characteristics
9. Reciprocating Pump Characteristics
10. Reynolds Apparatus
11. Packed Bed
12. Fluidized Bed
13. Pitot Tube