

Report Requirements Two parts (lab and research)

Groups: maximum 5 students

First: Lab part

1- <u>Calibration of Pressure Gauge Using Dead Weight</u> Tester

- 1. Objective
- 2. Tables of observation and results
- 3. Sample of calculations
- 4. Graph (Gauge reading on x-axis, Actual pressure on y-axis) straight line
- 5. Conclusion

2- <u>Determination of the Centre of Pressure of a Plane</u> <u>Surface Immersed In Water Using Hydrostatic</u> <u>Pressure Apparatus</u>

- 1. Objective
- 2. Tables of observation and results add error in each reading $(E\% = \frac{X_{th} X_{ex}}{X_{th}} * 100)$
- 3. Sample of calculations
- 4. Conclusion

3- Secondary Losses in Bends and Fitting

- 1. Objective
- 2. Tables
- 3. Sample of calculations
- 4. Conclusion

4- Calibration of Orifice Meter

- 1. Objective
- 2. Tables
- 3. Sample of calculations
- 4. Graphs [2 graphs]
 - a. Vact vs Vth slope=Cv (straight line)
 - b. Qact vs Qth slope=Cd (straight line)
- 5. Conclusion



5- Bernoulli's Experiment and Calibration for Venturi-Meter

- 1. Objective
- 2. Tables
- 3. Sample of calculations
- 4. Graphs [2 graphs]
 - a. Vact vs Vth slope=Cv (straight line)
 - b. Qact vs Qth slope=Cd (straight line)
 - c. Hydraulic gradient
- 5. Conclusion

Second: research part

This part is about 3 topics

Notes:

- Any hand written parts will be rejected.
- Any **copied parts** on the report both reports will be rejected.