ma mahran56@yahoo.com البريد الالكتروني:

- 1. Fluid Pressure and different methods of its Measurement.
- 2. Archimedes principles and floating bodies.
- 3. Velocity and acceleration in two dimensional flow, Newton's law for fluids and its application in simple cases.
- 4. Continuity equation and its application for ideal fluid.
- 5. Bernoulli's equation and its application for ideal fluid.
- 6. Laminar and turbulent flow in pipes and Reynolds experiments.
- 7. Dimensional Analysis and Similarity
- 8. Steady flow in pipes.
- 9. pressure losses in pipe networks, joints and exit connections.
- 10. Flow of viscous fluid in pipes.

The research should include:

1. INTRODUCTUN:

This section may show the importance of the subject, its working principles, types, materials, maintenance, the methods used to enhance the performance ...etc.

2. LITRATURE REVIEW:

It should provide a background information and a review of the existing literature.

3. SOLVED EXAMPLE:

The Student Should Give one Solved Example.

4. CONCLUSIONS:

which summary the main trend and main results

5. RECOMMENDATIONS FOR FUTURE WORK:

The student can suggest one technique to enhance the performance of the selected topic

6. LIST OF REFERENCE (Written as follows):

Author's name, "Research Title" Journal name, volume Number, Year, Pages.