

4ME4-22: FLUID MECHANICS LAB

- 1 Determination of Meta-centric height of a given body. - <https://youtu.be/QUgXf2Rj2YQ>
- 2 Determination of C_d , C_v & C_c for given orifice. - https://youtu.be/xq_lgKAPt_c
- 3 Calibration of contracted Rectangular Notch and / Triangular Notch and determination of flow rate. - <https://youtu.be/HGQM913r110>
- 4 Determination of velocity of water by Pitot tube. - <https://youtu.be/AbBDMQ7fHS4>
- 5 Verification of Bernoulli's theorem. - <https://youtu.be/UJ3-Zm1wbIQ>
- 6 Calibration and flow rate determination using Venturimeter & Orifice meter and Nozzle meter - <https://youtu.be/FxE1b-qBcT8>
- 7 Determination of head loss in given length of pipe. - <https://youtu.be/FxE1b-qBcT8>
- 8 Determination of the Reynold's number for laminar, turbulent and transient flow in pipe.- <https://youtu.be/sycOzXg04SI>
- 9 Determination of Coefficient for minor losses in pipes. - <https://youtu.be/WMtiH5LyOYI>
- 10 To study the velocity distribution in a pipe and also to compute the discharge by integrating the velocity profile. -
- 11 To study the boundary layer velocity profile over a flat plate and to determine the boundary layer thickness. -
- 12 Conducting experiments and drawing the characteristic curves of centrifugal pump/submergible pump. - <https://youtu.be/IyFnlyUDxdg>
- 13 Conducting experiments and drawing the characteristic curves of reciprocating pump.- <https://youtu.be/s6Rlx0SL3C8>
- 14 Conducting experiments and drawing the characteristic curves of Pelton wheel. - https://youtu.be/XOHWOZKaZ_o
- 15 Conducting experiments and drawing the characteristics curves of Francis turbine. - <https://youtu.be/uNq2J0KtDcA>
- 16 Conducting experiments and drawing the characteristic curves of Kaplan turbine.- <https://youtu.be/0p03UTgpnDU>