

31065 HYDRAULICS LAB

DETAILED SYLLABUS

OBJECTIVES

On completion of the course the student will be familiar with:

- Measuring the fluid pressure using manometers
- Determination of co-efficient of discharges of Orifice, mouthpiece, orifice meter, venturi meter, notches etc.,
- Determination of pipe friction factor
- Drawing characteristic curves for centrifugal and Reciprocating pumps.

LIST OF EXPERIMENTS

Flow of Fluids:

1. Verification of Bernoulli's theorem.
2. Flow through Venturi meter – Determination of Co-efficient of Discharge.
3. Flow through Orifice meter – Determination of Co-efficient of Discharge.

Flow through orifice:

1. Determination of Co-efficient of Discharge by Time fall - Head method
2. Determination of Co-efficient of Discharge by Constant head method

Flow through external cylindrical mouth piece:

1. Determination of Co-efficient of Discharge by Timing fall in head method
2. Determination of Co-efficient of Discharge by Constant head method

Flow through pipes:

Determination of friction factor for the given GI pipe / PVC pipe.

Flow through notch:

Determination of Co-efficient of Discharge for Rectangular Notch / V-Notch

Pumps:

1. Reciprocating pump – To draw characteristic curves.
2. Centrifugal pump – To draw characteristic curves

Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
Question Papers
Results and Many more...

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www.AllAbtEngg.com

REFERENCE

1. Hydraulic Lab Manual Compiled - T.T.T.I. - Chennai – 113
2. Ghosh and Talapohia - Experimental Hydraulic - Khanna Publishers - New Delhi