3CE106 Fluid Mechanics & Hydraulics Lab (Core)

L-T-P-Cr: 0-0-3-1

Objective: To impart knowledge and skill of fluid mechanics pertaining to both fluid statics and fluid dynamics on experimental setups.

Practical\*: 1. Viscosity 2. Metacentric height 3. Orifice Meter 4. Notches 5. Reynolds number, Flow Visualization 6. Impact of jet 7. Bernoulli’s Apparatus \* depending upon the availability of the instrument/ apparatus.

Reference Books/Text Books: 1. Sarbjit Singh, Experiments in Fluid Mechanics, Eastern Economy Edition, PHI. 2. R.V. Raikar, Laboratory manual on Hydraulics and Hydraulic Machines, PHI. 3. V. L. Streeter E.B. and Wylie, Fluid Mechanics, McGraw Hill. 4. Fox & McDonald, Fluid Mechanics, John Wiley. 5. Fluid Mechanics Experimental Laboratory Manual by K.R. Arora, Standard Publishers and Distributors, NaiSarak, Delhi-6.

Expected Outcome: Students should be able to set up and perform experiments in fluid mechanics based upon basic concepts and empirical equations