


Walchand Institute of Technology, Solapur
Lab Details

Lab Photo	
Lab Name	FLUID MECHANICS
Lab Description	The utilization of the laboratory is for Second year Civil Engineering students and Second and Third year Mechanical Engineering students.
Lab Equipments	<ol style="list-style-type: none"> 1. Manometers 2. Adjustable channel 3. Reynold's apparatus 4. Venturimeter 5. Bernoullie's apparatus 6. Notches 7. Metacentric height apparatus (ship model) 8. Orifices and Mouthpieces 9. Critical velocity apparatus 10. Losses in pipes apparatus 11. Impact of jets apparatus 12. Volute siphon 13. Pumps 14. Impact of jet apparatus 14. Turbine model (Pelton wheel, Francis turbine) <p>Also a open channel of 50 meters is constructed in the laboratory to measure the discharge by using notches.</p>
Lab Floor Area in square meters	174
Practicals Engaged in Lab	<p>For semester I</p> <ol style="list-style-type: none"> 1. Study of manometers 2. Measurement of pressure and discharge

	<ol style="list-style-type: none"> 3. Determination of Metacentric height 4. Verification of Bernoulli's theorem 5. Calibration of Venturimeter 6. Calibration of Orifices 7. Calibration of Mouthpieces 8. Study of losses in pipes 9. Determination of Darcy's factor 10. Verification of streamlines and flow nets 11. Study of Moody's charts and Nomographs <p>For semester II</p> <ol style="list-style-type: none"> 1. Calibration of Broad crested weir 2. Calibration of Sharp crested weir 3. Determination of coefficient of discharge of Ogee spillway 4. Determination of coefficient of discharge of Venturiflume 5. To calculate critical velocity by Reynold's apparatus 6. Study of Hydraulic jump 7. Study of Impact of jets 8. Study of Pelton wheel 9. Study of Francis turbine 10. Study of properties of fluids 11. Classification and silent features of Turbo-machines
Name of Lab Incharge	Mr. Deshmukh Sachin Chandrakant
Associated Faculty of the Lab	Dr. Kashid Satishkumar S
Name of Lab Assistant	Mr. Potdar Gurunath
Name/s of Lab Menial Staff	Mr. More Jagganath P.