

Fluid Flow Operation laboratory

Actual Photo of lab



Faculty in charge	Mr. S S Kadlag
Laboratory Area	102 m ²
Location	C:02/02
Seating Capacity	20 Seating of SFMO Lab
Infrastructure & Facility	Water connections Black Board, 2 Student's Tables (Shearing of SFMO Lab) 1 Faculty Tables (Shearing of SFMO Lab) 20 Stools (Shearing of SFMO Lab)
List of Equipment Available	<ol style="list-style-type: none">1. FLUIDIZATION2. FLOW THROUGH NOTCHES3. FLOW THROUGH HELICAL COIL4. POWER CONSUMPTION IN AN AGITATED VESSEL5. EFFLUX TIME OF TANK6. FLOW THROUGH ANNULUS7. FLOW THROUGH FIXED BED8. ACRYLIC TUBE9. AIR COMPRESSOR

<p>List of Experiments Performed</p>	<p>Odd Sem:</p> <ol style="list-style-type: none"> 1. To determine pressure drop per unit bed length as a function of superficial velocity of fluidizing medium. 2. To determine the coefficient of discharge for Orificemeter. 3. To find the coefficient of discharge for a triangular and sharp-edged notch. 4. To compare the pressure drop in helical coil with that in a straight pipe of same length, inside diameter and surface roughness. 5. To determine the Reynolds's number and hence the type of flow, either laminar or turbulent. 6. To determine the power number for different impellers 7. Determination of Viscosity of different densities Fluid by Measuring Efflux Time 8. To calibrate the given Rotameter and draw it in the calibration curve. 9. To estimate pressure drop for dry packing, wet drained packing and for two phase flow of air & water 10. Determination of Viscosity of different densities Fluids <p>Even Sem: NA</p>
<p>Total Expenditure</p>	<p>Rs. 393,010.25</p>