

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

Department of Chemical Engineering

Fluid Mechanics Lab

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1. To determine the local point pressure with the help of Pitot tube.
 2. To find out the terminal velocity of a spherical body in water.
 3. To determine the viscosity of a spherical body in water.
 4. To find the pressure drop in a packed bed,
 5. To study the flow behavior of a Non-Newtonian fluid and to determine the flow constants.
 6. To determine the power number- Reynolds Number curve.
 7. To differentiate between laminar and turbulent flow using Reynolds experiments.
 8. To study the characteristics of an air compressor.
 9. To study the characteristics of a centrifugal pump.
 10. To study the flow of a fluid in a pipeline and to prepare the friction factor-NRe plot.
 11. To determine the friction losses, expansion losses and reduction losses in bends and pipes and
 12. Verify the Bernoulli equation.
 13. To prepare the calibration curve for an orifice meter and Rotameter.
 14. To prepare the calibration curve for a Venturimeter.
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