



MANIPAL UNIVERSITY JAIPUR
School of Civil and Chemical Engineering
Department of Civil Engineering

Lab & Equipment Details (FM Lab)

Name of Laboratory	Fluid Mechanics Lab
Lab Description	This lab facilitates a practical overview of the concepts of fluid flow, hydrostatics, hydraulics machinery and include calibration & operation of various types of flow measurement devices and along with comprehending basic and practical concept of flow evaluation of open channel flow/pipe flow/hydraulic machinery. Students could have hands-on experience on acquiring data and analysing the results of various fluid flow operations.
Lab resources	<ol style="list-style-type: none"> 1. Closed circuit broad crested weir apparatus 2. Closed circuit orifice meter apparatus 3. Closed circuit venturi meter apparatus 4. Double stage centrifugal pump apparatus 5. Closed circuit Francis turbine apparatus 6. Kaplan turbine test rig apparatus 7. Centrifugal pump test rig apparatus 8. Closed circuit hydraulic ram apparatus 9. Closed circuit mouth pieces apparatus 10. Reynold's number apparatus 11. Closed circuit v-notch apparatus 12. Pelton wheel turbine test rig apparatus 13. Venturi flume apparatus 14. Closed circuit gear oil pump apparatus 15. Closed circuit friction factor of a pipe apparatus 16. Closed circuit reciprocating pump apparatus 17. Closed circuit impact of jet apparatus 18. Metacentric height apparatus