## INTEGRAL UNIVERSITY LUCKNOW

## HYDRAULICS AND HYDAULIC MACHINE LAB

The laboratory is equipped with a number of equipment and experimental setups to study the fundamental and applied aspects of hydraulics and hydraulic machines. The setups are used for calibration of flow measuring devices used in channels and pipes. Measurements of critical Performance parameters like efficiency, flow rate etc of various hydraulic machines such as turbines, pumps are also measured in this lab. The equipment is operated in a closed loop system which conserves water and averts the need for large quantities of water supply

S.NO.	APPARATUS NAME	IMAGE	DISCRIPTION
1.	CENTRIFUGAL PUMP		Centrifugal pumps are a sub-class of dynamic axis symmetric work- absorbing turbo machinery. Centrifugal pumps are used to transport fluids by the conversion of rotational kinetic energy to the hydrodynamic energy of the fluid flow. The rotational energy typically comes from an engine or electric motor







