



FLUID MECHANICS AND HYDRAULIC MACHINES LAB	Triangular notch	
	Pelton turbine	
	Mouth pieces	
	Orifice meter	
	Reciprocating pump	
	Multistage centrifugal pump	 <p>Multistage centrifugal pumps have multiple liquid chambers (or stages) that are connected in series. Fluid enters the first chamber at suction line pressure and leaves at some elevated pressure. Upon leaving the first stage, the fluid enters the second stage where the pressure is increased further. The more stages the pump has, the higher the final discharge pressure. These pumps have the unique ability to produce higher and higher pressures with the addition of every stage, but flow range always remains constant for a given rpm</p>
Modern Francis turbine	 <p>Modern Francis turbine embraces a radial flow runner in which the water strikes the runner blades radially and departs axially along its axis through a draft tube. The Modern Francis turbine is a mixed flow-type turbine in which the water passes through the curved guide vanes and creates a high curved rotational flow at the outlet. A draft tube is connected at the end of the turbine, and this draft tube aids to improve the overall efficiency of the reaction turbine by pacifying the excess kinetic energy of the fluid.</p>	

Francis turbine



The Francis turbine is a type of water turbine. It is a reaction flow turbine. Francis turbines are the most common water turbine in use today for medium head.

Johnston vertical turbine

Kaplan turbine

Metacentric height

Centre of pressure apparatus

Free and forced vortex apparatus

Jet pump test rig

Hydraulic ram

Impact of jet on vanes

Gear oil pump test rig

Cavitation test rig

Centrifugal fan test

Pressure gauge apparatus

Orifice, venturi meter and rotameter test rig

Losses due to friction in pipelines

Bernoulli's theorem

Reynold's apparatus

Flowmeter apparatus or Durley box apparatus

Centrifugal blower test rig.

Axial flow fan test rig