

# Fluid Mechanics & Hydraulics Laboratory

## **LABORATORY INFORMATION**

**Lab Name:** Fluid Mechanics & Hydraulic Laboratory “as shown in figures

**Room No.:** 007 - Colleges of Engineering and Technology

**Capacity:** 25 students

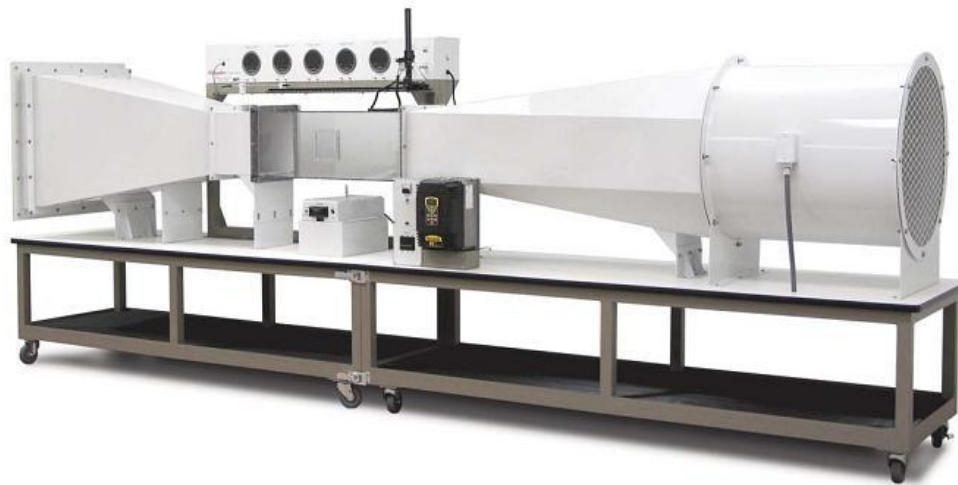
The focus of fluid mechanics & hydraulics lab is to conduct the Practical training on pumps and compressors systems, where the trainees could improve their experience and technical knowledge concerning various related equipment. The lab current capabilities permit a variety of technical courses for engineers working in the field of fluids and hydraulics industry.

## **MAJOREQUIPMENT**

- Fluid Mechanics
- Venture and Orifice meter
- Wind and Smoke tunnel.
- Pipe friction equation
- Flow channel equation open channel
- Fluid circuit demonstrator.
- Pumping station
- Flow in closed channels (Flow channel)
- Two hydraulic bench
- Michell tilting pad apparatus
- Hydraulic
- Hydraulics Trainer, Single Sided, Cart Mounted
- Cylinder Loading Option
- Accumulator Option
- Electro-Hydraulics Trainer Single Sided, Cart Mouted
- Plc & Loop Proportional Control Option
- Electro-Pneumatic Trainer Single Sided, Cart Mouted
- Air Compressor System
- Pneumatic & Plc Sequence Control
- Training Manuals

**The laboratory serves the following courses:**

Course Code	Course Title	Semester
ME 362	Hydraulics	6 <sup>th</sup>
ME 461	Fluid Mechanics	7 <sup>th</sup>
ME 505	Turbo Machinery	Elec. Course group (A)



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