

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA IN MECHATRONICS ENGINEERING**  
**SEMESTER: V**

**Subject Name: Fundamentals of Thermal & Fluid Devices Practices**

**Laboratory Experiences:**

The sample experiments to be performed include, but are not limited to the following.

<b>Sr. No.</b>	<b>Experiments</b>
1.	Demonstration of Bernoulli's theorem.
2.	Experiment to determine Reynold's number.
3.	Demonstration of reciprocating or gear pump.
4.	Demonstration of centrifugal pump.
5.	Demonstration of Pelton turbine.
6.	Demonstration of air compressor.
7.	Selection & Study of types of lubricants.
8.	Demonstration of measuring emissivity.
9.	Demonstration of counter flow / Parallel flow heat exchanger.
10.	Three practical on hydraulic systems to be performed using suitable trainer kit and two practical on pneumatic systems to be performed using suitable trainer kit.