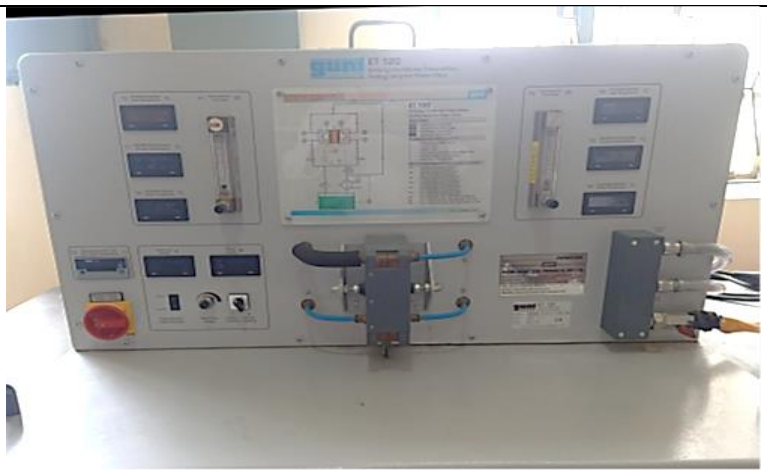
HEAT TRANSFER LAB	Thermal conductivity of insulating powder	
	Heat transfer through natural convection	
	Absorption Refrigeration System	 The absorption refrigeration system demonstration model is a fully functional absorption refrigeration system. It is heated with propane gas or electrically and works with an ammonia/water mixture. The demonstrator model is used to demonstrate the fundamental principle of an absorption refrigeration system and to learn about the operating behaviour under load.
	Refrigeration circuit with variable load	 The Refrigeration circuit with variable load is a fully functional compression refrigeration system. It operates with a water-charged evaporator and ari-charged condenser. The evaporator can be subjected to varying loads with the help of the water circuit. The test includes determination of key characteristics variables like Coefficient of performance, Refrigeration capacity, Compressor work and operating behaviour under varying load condition.

Cooling using the Peltier Effect	 The test set-up allows to study the properties of a peltier element. In this set-up, the thermal output or refrigeration capacity is conducted away via a flow of water. The water flow and the temperature difference across the heat exchanger can then be used to drive a caloric evaluation . The electrical power flowing via element is determined using a current and voltage measurement.
Heat transfer in forced convection	
Heat transfer from a pin-fin (natural convection)	
Heat transfer from pin-fin (forced convection)	
Emissivity apparatus	
Shell and tube heat exchanger	
Thermal conductivity of liquid	
Multiple effect evaporator	
Shell and tube heat exchanger	
Dropwise and film wise condensation apparatus	
Optical pyrometer	
Relative humidity	
Thermocouple apparatus	