

HEAT TRANSFER & THERMODYNAMICS LABORATORY

Laboratory Information

Lab Name: Heat Transfer & Thermodynamics Laboratory
Room No.: 005 - Colleges of Engineering and Technology
Capacity: 25 students

The focus of the heat transfer and thermodynamics lab are to conduct the Practical training on Heat Exchanger, power generation systems (e.g. steam cycle and gas turbine) and different types of heat transfer 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 power generation industry and heat transfer.

Major Equipment

- Heat conduction Apparatus
- Steam power plant
- Convection heat transfer apparatus.
- Modular Heat Exchanger.
- Gas Turbine Trainer.
- Cross Flow Heat Exchanger.
- Concentric tube heat exchanger.

Laboratory Serves the following courses:

Course Code	Course Title	Semester
ME 232	Thermodynamics (1)	3 rd
ME 333	Thermodynamics (2)	4 th
ME 431	Heat Transfer	7 th
ME 520	Thermal Plant Engineering	9 th



Figure 1.14 Steam power plant



Figure 1.15 Gas Turbine Trainer



Figure 1.16 Heat conduction Apparatus



Figure 1.17 Cross Flow Heat Exchanger



Figure 1.18 Convection heat transfer apparatus