

Heat Transfer & Thermodynamics Laboratory

LABORATORY INFORMATION

Lab Name: Heat Transfer & Thermodynamics Laboratory as shown in the figure

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. The heat transfer and thermodynamics is shown in figure 7.13.

MAJOR EQUIPMENT

- Heat conduction Apparatus
- Heat Exchanger
- Combustion units
- Steam power plant
- Convection heat transfer apparatus.
- Vortex Tube Refrigerator.
- Modular Heat Exchanger.
- Forced Convection Demonstrator.
- Gas Turbine Trainer.
- Steam Turbine Trainer.
- Cross Flow Heat Exchanger.
- Air Compressor System.
- Thermal Conduction Demonstrator.
- Concentric tube heat exchanger.

LABORATORY SERVES THE FOLLOWING COURSES:

Course Code	Course Title	Semester
ME 232	Thermodynamics(1)	4 th
ME 333	Thermodynamics(2)	5 th
ME 431	Heat Transfer	7 th
ME 520	Thermal Plant Engineering	9 th



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