

# Refrigeration & Air Conditioning and Renewable Laboratory

## **LABORATORY INFORMATION**

**Lab Name:** Refrigeration & Air Conditioning and Renewable Laboratory  
**Room No.:** 008 & 010 - Colleges of Engineering and Technology  
**Capacity:** 25 students

The focus of the refrigeration and Air conditioning lab is to conduct the Practical training on refrigeration and air conditioning 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 refrigeration and air conditioning industry.

## **MAJOR EQUIPMENT**

- Car air conditioning lab. Unit
- Indirect refrigeration system exp.
- Heat pump
- Absorption refrigeration unit
- Lab: Test unit for refrigeration cycle with different components
- Advanced Commercial Refrigeration Trainer.
- Building Management Trainer.
- Commercial Refrigeration Trainer.
- Recalculating Air Conditioning Demonstrator.
- Thermoelectric Pump.
- Vapor Compression Cycle Demonstrator.
- Refrigerant Recovery Units.
- Container Reefer.
- Cooling Tower
- Air conditioning cycle.

**LABORATORY SERVES THE FOLLOWING COURSES**

Course Code	Course Title	Semester
ME 241	Experimental Methods	2 <sup>nd</sup>
ME 333	Thermodynamics (2)	5 <sup>th</sup>
ME 434	Refrigeration & Air Conditioning	8 <sup>th</sup>
ME 535	Refrigeration Equipment and Control	9 <sup>th</sup>
ME 524	Renewable Energy Resources	10 <sup>th</sup>
ME 536	AC Units & Control	10 <sup>th</sup>





refrigeration & air conditioning and renewable laboratory