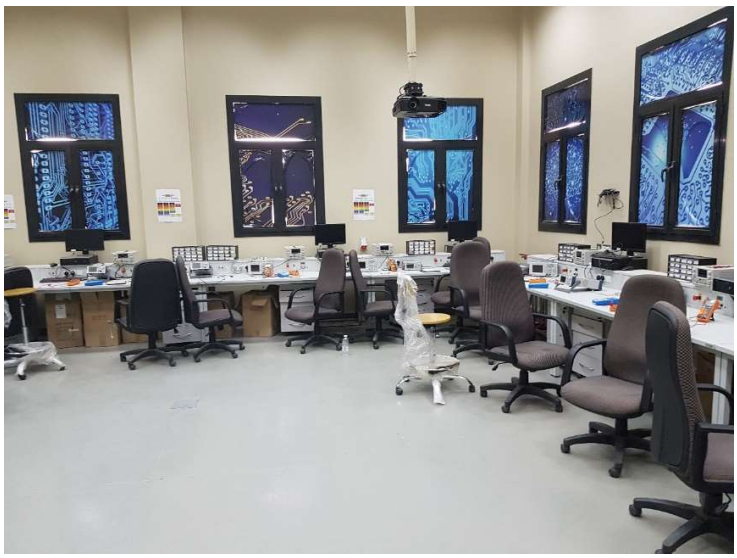
The department of electrical engineering Laboratories

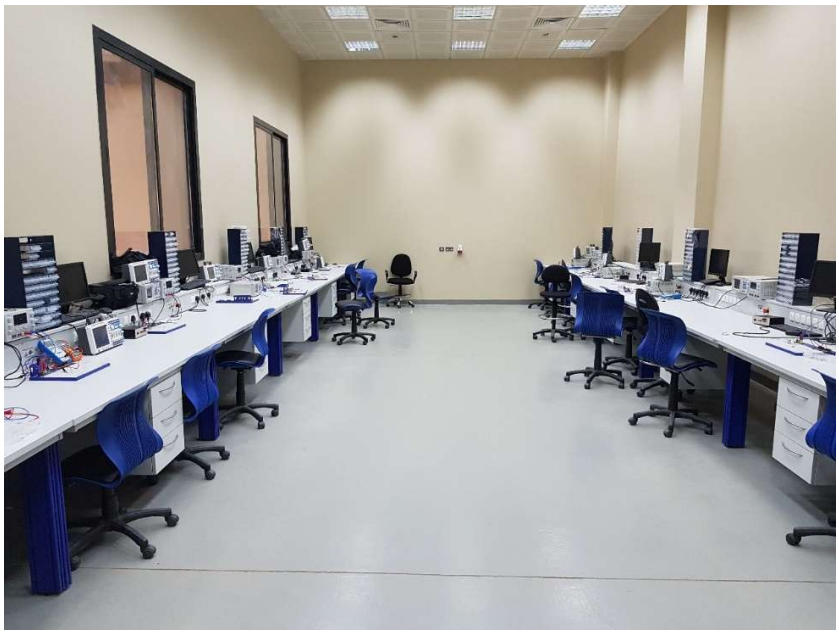
A. Electrical Circuits Lab

In this lab, students learn the basics of electrical engineering and become familiar with the components of the electrical circuit. They also learn how to measure electric current, voltage difference, and resistance and apply of some electrical laws such as Ohm's law and Kirchhoff's law.



B. Electronics Lab

In this lab, students learn the basics of electronics and its components such as diodes and transistors. They also learn how to build and test electronic circuits and some of their applications.



C. Communications Lab

The lab includes devices that help students to understand the theories of analog and digital communications and used in broadcasting of radio stations of both AM and FM

D. Electromagnetic Fields Lab

The Electromagnetic Fields Laboratory contains advanced equipment and software used to conduct experiments about antennas and electromagnetic field theories and their applications in the area of wave propagation, radiation, and radio communication.

E. Control Lab

Contains the equipment that are necessary to conduct experiments about the basics of control and its application in different systems. They also learn how to adjust the controller to get the desired output.

F. Logic circuit lab

Students learn the basics of designing and implementing combinational and sequential digital circuits and systems such as adders, encoders, multiplexers, and counters using logic gates.

G. Electrical and Power Machines Lab

In this lab, students use different electrical measuring devices and components to conduct basic experiments about electrical power systems and study the general characteristics of power systems such as generators, motors, transformers, loads of various types, and transmission lines.