



Faculty of Engineering

Department of Electrical Engineering (EE)

Contact Information

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Overview

Electrical Engineering major is one of the most remarkable and oldest engineering programs in the world. Due to the local and regional labor market need for the electrical engineering program, it was introduced to the Faculty of Engineering in 2012. Electrical Engineering has a great importance in advancing technical development, as electrical engineers have an effective role in all development plans and their various engineering projects. Electrical engineers design, create and sustain various engineering facilities, such as electrical stations, transportation lines, and distribution networks, in addition to their active role in the design and management of various communication systems as well as engineering project management and cost analysis. Electrical engineers have several job opportunities available in various development fields, whether in government or private sectors in the local, regional, and global labor market.

Mission

Excellence in the quality of the graduates academically and professionally to meet the requirements of the local and regional labor market and to keep up with the technological advancements in the field. Stimulate and strengthen the scientific research in Electrical Engineering.

Program Educational Objectives (PEOs)

- PEO1:** Identify, analyse, formulate, and solve electrical engineering problems associated with the workplace, both independently and in a multidisciplinary team environment.
- PEO2:** Demonstrate commitment and progress in a continuous learning, professional development, and leadership.
- PEO3:** Apply the acquired knowledge in serving the society and understand the professional and ethical responsibilities.

Student Outcomes (SOs)

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.



5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Mapping Between PEOs & SOs

PEOs	SOs						
	1	2	3	4	5	6	7
1	H	H	M	L	M	H	
2		L		L	H	M	H
3	L	M	H	H	M		H

H-Highly correlated

M-Moderately correlated

L-Low correlated