

Vision of the Department

The Vision of Electrical and Electronics Engineering Department is to become a nationally and internationally leading institution of higher learning, building upon the culture and values of universal science and contemporary education, and a center of research and education generating the knowledge and the technologies which lay the groundwork in shaping the future in Electrical and Electronics Engineering.

Mission of the Department

To become an internationally leading department for higher learning.

To build upon the culture and values of universal science and contemporary education.

To be a center of research and education generating knowledge and technologies which lay groundwork in shaping the future in the fields of electrical and electronics engineering.

To develop partnership with industrial, R&D and government agencies and actively participate in conferences, technical and community activities.

Program Educational Objectives

This education is meant to prepare our students to thrive and to lead. In their careers, our graduates:

1. Will have successful technical or professional careers, including supportive and leadership roles on multidisciplinary teams.
2. Will acquire, use and develop skills required for effective professional practices.
3. Will acquire the holistic education necessary to be a responsible member of society.
4. Engage in life-long learning to remain current in their profession and be leaders in our technological society.

Programme Learning Outcomes:

Students in the Electrical and Electronics Engineering program should, at the time of their graduation, be in possession of:

- a. Ability to apply knowledge of mathematics, science, and engineering.
- b. Ability to design and conduct experiments, as well as to analyze and interpret data.
- c. Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- d. Ability to function on multi-disciplinary teams.
- e. Ability to identify, formulate, and solve engineering problems.
- f. Understanding of professional and ethical responsibility.
- g. Ability to communicate effectively.
- h. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i. Recognition of the need for, and an ability to engage in life-long learning.
- j. Knowledge of contemporary issues.
- k. Ability to utilize experimental, statistical and computational methods and tools necessary for engineering practice.
- l. Graduates will demonstrate an ability to design electrical and electronic circuits, power electronics, power systems, electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.



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