

Bachelor of Science in Electrical Engineering (BSEE)

Program Educational Objectives of Electrical Engineering

The alumni of BS Electrical Engineering program about three to five years after graduation shall:

1. Demonstrate professional expertise through analytical and innovative for the purpose of solving industry-based engineering problems, design of advance electrical system and involvement in research oriented projects.
2. Engage their engineering profession in the globally competitive environment through continuous professional education, research and development and other creative and innovative efforts in science, engineering and technology as well as other professional careers.
3. Exhibit holistic leadership and professionalism, through peer-recognized expertise in team-based environment as agents of sustainable economic development.

Student Outcomes

The following skills, knowledge, and behaviors are expected to be attained by students as they progress through the program:

1. An ability to identify, formulates, and solves complex engineering problems by applying principles of engineering, science and mathematics.
2. An ability to apply engineering design to produce solutions that meet specific 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 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.