

B.S. IN ELECTRICAL ENGINEERING



The Electrical Engineering Program is accredited by the Engineering Accreditation Commission of **ABET**, <http://www.abet.org>

The number of enrolled students, and the number of graduates, in the past five years is summarized in the following table:

Year	2018	2019	2020	2021	2022
Enrollment	200	210	187	190	152
Graduates	17	30	26	20	42

Educational Objectives of the Electrical Engineering Program

(Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation)

1. To apply the principles of the profession to improve the human condition.
2. To be able to gain entrance to a graduate program in electrical engineering or related disciplines.
3. To become leaders in their profession by assuming increasing responsibility within their organizations, serving as role models for their peers, and being effective change agents for the benefit of the organizations that they represent.
4. To demonstrate attainment of professional and technical maturity.

Outcomes for the Electrical Engineering Program

(Student outcomes describe what students are expected to know and be able to do by the time of graduation)

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.
8. Knowledge of probability and statistics, including appropriate electrical engineering applications.
9. Knowledge of advanced mathematics, including differential equations, linear algebra, complex variables, and discrete mathematics.
10. An ability to analyze and design complex electrical and electronic devices, software, and systems containing hardware and software components.