

COMPUTER AND TELECOMMUNICATION ENGINEERING

MISSION

The mission of the Computer and Telecommunication Engineering program is to provide excellent undergraduate education which includes the theory and practice of balanced topics in computer and communication engineering. The program seeks to prepare qualified computer and communication engineering graduates for professional practice or graduate studies.

COMPUTER AND TELECOMMUNICATION ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES

The graduates of the Computer and Telecommunication Engineering program will be able to:

- Practice the engineering profession with critical thinking, ethics, integrity, leadership, and civic responsibility so as to enhance the quality of living.
- Lead productive careers in a broad range of computer and communication engineering specializations at the local, regional, and international levels.
- Pursue successful graduate studies and engage in life-long learning.

COMPUTER AND TELECOMMUNICATION ENGINEERING

PROGRAM OUTCOMES

The students of the Computer and Telecommunication Engineering program should attain the following outcomes:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An 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.
- An ability to function on multidisciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.