

## MECHATRONICS ENGINEERING

### MISSION

The mechatronics engineering program will provide students with a comprehensive, specialized, and contemporary education that prepares them for successful careers in industry and graduate studies.

## COMPUTER AND TELECOMMUNICATION ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES

*Within a few years of graduation, the graduates of the Mechatronics Engineering program will:*

- Establish themselves as practicing Mechatronics engineers or be engaged in advanced studies
- Conduct themselves as effective professionals
- Demonstrate leadership and collaborate effectively with diverse team members
- Demonstrates career advancement with increasing responsibility in the Mechatronics Engineering industry or allied disciplines.
- Possess effective research and development skills that will enable them to pursue graduate education in Mechatronics Engineering or related fields

## COMPUTER AND TELECOMMUNICATION ENGINEERING

### PROGRAM OUTCOMES

*Upon completion of the B.E. in Mechatronics Engineering, students will acquire the following skills, knowledge, and behaviors:*

- 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 multi-disciplinary teams;
- An ability to identify, to formulate, and to solve, engineering problems;
- An understanding of one's professional and ethical responsibility;
- An ability to communicate effectively;
- A 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; and
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.