

## **BS in ENGINEERING TECHNOLOGY - ELECTRICAL Concentration**

### **A. Program Educational Objectives**

#### **Program Educational Objectives – Bachelor of Science in Engineering Technology**

1. Graduates manage projects from problem identification to hands on implementation.
2. Graduates function effectively on teams and communicate effectively in spoken, written, and graphical forms.
3. Graduates are proficient in the use of engineering technologies as tools to solve real world problems.
4. Graduates recognize professional, ethical, and social issues in practice.
5. Graduates demonstrate a commitment to quality and dependability.
6. Graduates stay current professionally.

#### **Program Educational Objectives - Concentration in Electrical Engineering Technology**

7. As project team members, graduates recognize opportunities and create solutions using electronics technology in a wide range of applications and provide leadership in developing solutions to industrial problems.
8. Graduates with specialized background in electronics, design and implement systems for communication, control and robotics based industrial applications.

### **B. Student Outcomes**

#### **Student Outcomes – Bachelor of Science in Engineering Technology**

1. Students have the ability to design solutions for comprehensive engineering problems and support in the design of discipline specific systems and processes by using advanced knowledge and skills of contemporary mathematics, science, engineering and technology.
2. Students have the ability to communicate information in written, oral, and graphical forms as well as use technical literature.
3. Students have the ability to perform experiments, analyze and interpret results using test equipment and productivity software; and
4. Students have the ability to work as a team to deliver results in a timely manner.

#### **Student Outcomes - Concentration in Electrical Engineering Technology. In addition to the outcomes stated above, electrical concentration graduates will demonstrate the following:**

5. Students have the ability to use knowledge of mathematics (basic calculus, statistics), physics, analog and digital electronics in the design, implementation, and testing of circuits as applied to engineering systems in control, communication, and robotic applications.
6. Students problem solve and create solution by design, analysis, and implementation. They manage projects, operate and maintain electrical and automation systems for industrial applications.