

## **ELECTRONICS ENGINEERING PROGRAM**

Electronics Engineering is a branch of engineering that integrates available and emerging technologies with knowledge of mathematics, natural, social and applied sciences to conceptualize, design, and implement new, improved, or innovative electronic, computer, and communication systems, devices, goods, services, and processes.

### **PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

The graduates of the Bachelor of Science in Electronics Engineering (BSECE) are able to:

1. Excel in their profession/career utilizing the knowledge acquired in the Electronics Engineering program;
2. Become effective collaborators and innovators in the field of Electronics Engineering, applying professional/technical skills and competencies to make a positive impact on society; and be engaged in life-long learning and professional development through self- study, continuing education, or graduate and professional studies.

### **STUDENT OUTCOMES (SO)**

After the completion of the program, the graduates of the BSECE program shall be able to:

- a. apply knowledge of mathematics, sciences, and engineering sciences to the practice of electronics engineering.
- b. design and conduct experiments as well as analyze and interpret data.
- c. design a system, component, or process to meet needs within realistic constraints.
- d. work effectively in a multi-disciplinary and multi-cultural team.
- e. identify, formulate, and solve electronics engineering problems.
- f. understand professional and ethical responsibility.
- g. communicate effectively.
- h. understand the impact of engineering solutions in a global/societal context.
- i. engage in life-long learning and to keep current of the development in a specific field of specialization.

j. know contemporary issues.

k. use appropriate techniques, skills, and modern tools necessary for electronics engineering practice.

l. know and understand engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments.

m. understand at least one specialized field of electronics engineering field.