

Associate Degree in Automation, Instrumentation, and Control Systems Technology

Educational Objectives

After completing the program, the graduate will be able to:

1. Be employed in areas related to instrumentation.
2. Continue his/her professional development through degree-granting studies.
3. Be a member of professional associations/organizations and actively participate in professional improvement activities.
4. Obtain job promotions or professional recognition and professional certifications.
5. Serve the community and/or contribute to environmental protection, using the knowledge acquired through the program.

Student Outcomes (Graduating Student Profile)

Program graduates will be able to:

- a. Apply the knowledge, techniques, skills and modern tools of instrumentation and process control to the operation of systems and in the selection of measurements and sensors;
- b. Apply a knowledge of math, science, engineering, and technology to instrumentation engineering technology problems that require limited application of principles, but extensive practical knowledge;
- c. Conduct standard tests and measurements, and to conduct, analyze, and interpret experiments related to instrumentation and automatic control;
- d. Function effectively as a member of a technical team;
- e. Identify, analyze and solve technical problems in control systems;
- f. Apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- g. Recognize the need for self-directed continuing professional development;
- h. Assume professional, ethical and social responsibilities, including a respect for diversity;
- i. Demonstrate a commitment to quality, timeliness, and continuous improvement.

Revised: November 14, 2014

Note: As revised and approved by the Electronics Department Advisory Committee in November, 2013.
Approved by the Dean of Academic Affairs and the Vice President for Academic Affairs in July, 2015.