Principles of Welding Process Control

WELDENG 4003

Credit Hours:
3.00 - 3.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture
Lab

Course Description:
Study of principles and practical application of control systems and control elements of welding processes.

Prerequisites and Co-requisites:
Prereq: 4001, and enrollment in the WeldEng-BS or MatScEn-BS major; or permission of instructor.

Course Goals / Objectives:
- Rudimentary understanding of welding as a process
- Acquaintance with the various technologies used to implement industrial process controls

Course Topics:
- Introduction to welding processes & control
- Relay logic controls
- Servo motors
- Programmable logic controls
- Sensors
- Computer data acquisition

Designation:
Elective