Course Prefix and Number: TEED 210  

Credit Hours: 4-3-3

Course Title: Robotic Control Systems

Course Prerequisites: TEED 201

Textbook(s): Online eLearning - MindSight LabVolt Series Automation and Robotics v3.0

Course Description: This course is an introduction course in industrial robotics, which includes programming and operation. Programming with software, as well as teach pendant will be used. Through the curriculum and hands-on experience gained in working with the robot in lab, students learn to create automated work cells.

Learning Outcomes:
At the end of the course, the student will:
   A. identify the major hardware components of an industrial robot;
   B. create a new workspace and work cell;
   C. testing the program in the simulation mode;
   D. editing program, using teach pendant; and
   E. execute industrial application labs.

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)
   1. correctly identify the parts of the industrial robot used in lab; (A)
   2. demonstrate the ability to create a new workspace and work cell; (B)
   3. write a program and test in simulation mode; (C)
   4. debug a program with software and teach pendant; (D) and
   5. successfully complete five industrial application labs with robotic trainer. (E)

Course Requirements:
   1. Students are expected to attend classes regularly; excessive unexcused absences constitute ground for suspension.
   2. Students need textbook and calculator at each class meeting.

Course Grading Scale:
   90 – 100 = A
   80 – 89  = B
   70 – 79  = C
   60 – 69  = D
   0 – 59   = F

Attendance Policy: The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

Revised: 03/31/2017
Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

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