# Bossier Parish Community College Master Syllabus

Course Prefix and Number: TEED 210 Credit Hours: 4-3-3

**Course Title:** Robotic Control Systems

**Course Prerequisites:** TEED 101

**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 <a href="http://www.bpcc.edu/catalog/current/academicpolicies.html">http://www.bpcc.edu/catalog/current/academicpolicies.html</a>

Revised: 10/02/2018

**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.

**Nondiscrimination Statement:** Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

### COORDINATOR FOR SECTION 504 AND ADA

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Equity/Compliance Coordinator Teri Bashara, Director of Human Resources Human Resources Office, A-105 6220 East Texas Street Bossier City, LA 71111

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