

Industrial Technology Annual Advisory Committee and AMT Engineering/Maintenance Sub-Committee Meeting
Jackson State Community College
April 7, 2017
7:00 a.m. – 8:30 a.m.

Meeting called to order and welcome by Reggie Davis, Advisory Committee Chair with the following members present: Brian Burnett, Jere Cox (Automation), Rich Cunningham (Lyondellbasell), Reggie Davis (TBDN), Christopher Dillow, Bill Flinn, Jeff Garner (TBTN), Darrel Johansen, Rob Kirts (Stanley Black and Decker), Michael March (Stanley Black and Decker), Dan Rodenbaugh (TCAT Jackson), Paul Williams, Chris Zamora (Owens Corning) and from JSCC: Roger James, Jack Laser, Ben Lawrence, Steve Mayfield, Terri Messer, Cathi Roberts and Janice Taylor.

Committee Chair noted to all committee members to be involved and engaged with students at their respective companies.

Old Committee Business: Progress on McWherter Building Expansion:

- Building was built with the intent of being industrial technology only.
- Previously, a lot of space was converted for Nursing. Nursing has moved to their new building.
- Occupational Therapy Assistant (OTA) and Physical Therapy Assistant (PTA) programs are housed in McWherter. At the end of the semester, both programs will be moving to their new building (Health Sciences).
- More space has opened up to provide additional classroom space, welding booths.
- Conversions will be made to go back to high bay areas
- Working on a grant through Delta Regional Authority (DRA) that focuses on robots. a certified robotic training center. We have to have at least five robots where we can certify people here by FANUC and to show there is a need/demand and local industry supports it.
- State only funds 40%, the remainder comes from tuition.

New Business

Program Updates

Enrollment – declared means they have chosen Industrial Technology as a major (see attached overview sheet). Bring in a new cohort of 25-30 students which will lead to 20-25 graduates each year. Our goal is to get them in the door and out the door with a degree.

Graduation – (see attached overview sheet)

Exit Exam Results – (see attached overview sheet) – How well prepared are they? We have a comprehensive exit exam that each student has to take. The average score is 79.3 which means they were able to retain the technical material

Program Schedule Review

New **FAST TRACK Accelerated Evening Program** – starting this fall, the FAST TRACK Industrial Technology Program Accelerated Evening Program will be launched

The best recruiter is people who work in your facilities.

FAST TRACK is designed to come one evening per week.

Daytime cohort review – Consist of two days per week classes in all courses

Allows students to work the remaining three days/week

Faculty staffing needs for area -

Currently advertising for another Industrial Tech full-time faculty member.
Degreed engineer with at least five years of manufacturing experience; or
Must have bachelor's degree in related manufacturing field with at least ten years of relevant manufacturing experience
Ability to communicate effectively to a diverse population of students

Early College High School impact in future - JMC schools interested high school students will be coming to the JSCC campus beginning in Fall 2017 for dual credit courses in Ind'l Tech and/or general education classes that lead to an associates degree.

Program Funding Efforts - Jack Laser is requesting your input

Program Recruitment Update - Cathi Roberts

Application deadline is April 17.

Some barriers: #1 barrier is parents.....we attended a parent meeting at McNairy County High School - #2 barrier is school officials.....perhaps they don't understand what we do.
We have a commercial series that highlights what our students are doing and how successful they are.

Statewide Program update - We are going to see some statewide curriculum changes.

Adding material in manufacturing classes

Name change - state is recommending program change to: Engineering Technology

JSCC instructor industry externships - Roger and Ben will be

JSCC staff/instructor specialized training scheduled this summer -

Roger and Cathi will attend the AMT Annual Conference in May

Ben continuing work on masters in engineering program

Roger on tract to complete his master's degree in 2017.

Curriculum Review -

Roger and Ben would like your feedback on the following courses:

EET 180 (PLC 1), EET 230 (PLC 11), EET 200 (Motors/Motor Controls), EET 270 (Robotics)

EET 297 (Auto Processes)

Committee members experienced course lab components and were asked to complete and submit the per course feedback evaluation sheets.

See minute's appendix for feedback suggestion information.

Minutes recorded by Janice Taylor

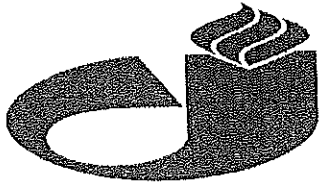
Jason's Deli: Breakfast (breakfast sandwiches, fruit, coffee) provided by Jason's Deli.

APPENDIX A

Industrial Technology Curriculum Validation

April 2017

Feedback for EET 180, PLC I



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

EET 180 Learning Objectives	
<input checked="" type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

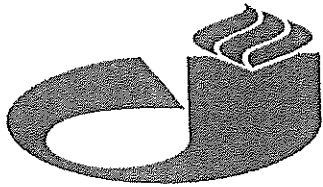
___ Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

THIS CLASS SEEMS TO BE FINE.

Name: Rob Kirts Company: S/D

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input checked="" type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input checked="" type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input checked="" type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input checked="" type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

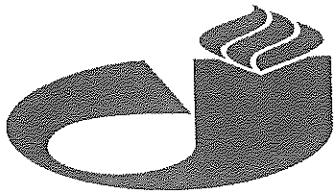
Additional outcomes expected with curriculum updates started Fall 2016:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

Make sure students are aware of multiple PLC manufacturers.

Name: Reginald Davis Company: TBDN
Date: 4/5/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

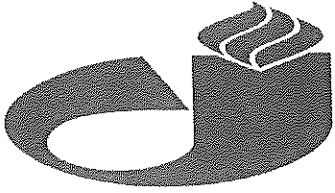
___ Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

- 1) Communications – Network
- 2) Noise
- 3) Routing Cables – Power & Contacts

Move
TO
PLC II
wrote on
wrong sheets

Name: Jeff Yarn Company: IBTN
Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

 Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

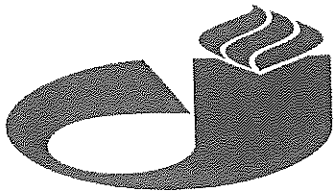
Please list any further topics you feel would enhance the PLC 1 class:

- more time on the ladder logic AND how it differs from hardwired diagrams, or real world wiring.

Name: STEVE MAYFIELD

Company: JSCC

Date: 4-7-2017



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

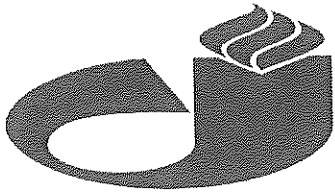
<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

___ Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

Name: Ben Boone H Company: TBTN
 Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

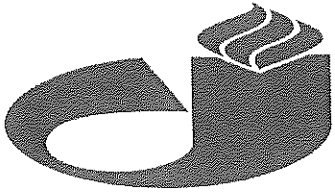
<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

Name: Darrel Johansen Company: Toyota Bodine
 Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input checked="" type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input checked="" type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input checked="" type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input checked="" type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

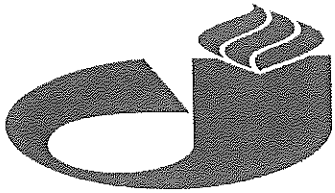
Additional outcomes expected with curriculum updates started Fall 2016:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

Instructions need to add exposure to other PLC vendors

Name: *John Cox* Company: *CMI*
Date: *4-7-17*



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 180 – Programmable Logic Controls I (Second Semester Course)

An introduction to programmable logic controllers and their usage in modern industry is covered. Memory addressing schemes and ladder logic are discussed in detail. PLC installation and maintenance are also discussed.

<input checked="" type="checkbox"/>	EET 180 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding and overview of programmable logic controllers.
<input checked="" type="checkbox"/>	b. To familiarize the student with various PLC hardware components and system arrangements.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC number systems and fundamentals of control logic.
<input checked="" type="checkbox"/>	d. To provide an understanding in basic PLC wiring diagrams and ladder logic programs using industry standards.
<input checked="" type="checkbox"/>	e. The proper use of timers and counters in a variety of PLC ladder logic program applications.
<input checked="" type="checkbox"/>	f. Provide student with various programming examples, opportunities, and skill development.

Additional outcomes expected with curriculum updates started Fall 2016:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC 1 class:

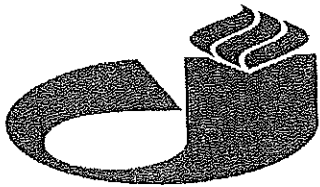
Name: Rich Cunningham Company: Lyondellbasell
Date: 4-7-17

APPENDIX A

Industrial Technology Curriculum Validation

April 2017

**Feedback for EET 200,
Motors/Motor Controls**



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
	a. To impart an understanding of electrical motor theory.
	b. To discuss various means of starting, stopping and controlling motors.
	c. To provide hands-on experience in operating and analyzing motor control circuits.
	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

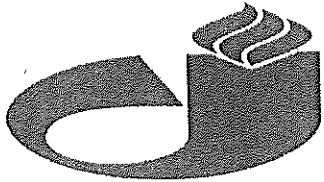
Please list any further topics you feel would enhance the Motors and Motor Controls class:

THE GUYS REALLY NEED TO UNDERSTAND HOW TO WIRE MOTOR INTO THE PANEL.
THEY WOULD BE ABLE TO TROUBLESHOOT 3Ø MOTOR CONTROLS WITH A MULTI METER.
(VOLTS, OHMS, AMPS). THIS NEEDS TO BE "HANDS ON" PUTTING A SYSTEM TOGETHER.
GOT THEM TO UNDERSTAND MOTOR AND MOTOR STARTERS COMPLETELY BEFORE INTO TO
THE DRIVES.

IF Michael + I CAN HELP "SHOW IT" LET US KNOW WE WILL MAKE TIME TO
COME BACK OVER AND DEMO IF NEEDED.

Name: ROB KIRTS Company: SBD

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input checked="" type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input checked="" type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input checked="" type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

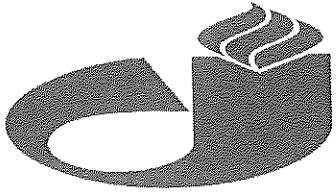
Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

- Basic safety
- Understanding components - Motor starters, relays, overloads etc .

Name: Reginald Davis Company: TBDN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input checked="" type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input checked="" type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input checked="" type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

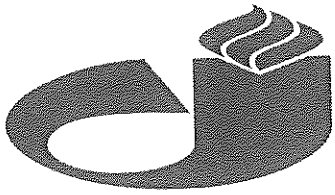
Course has updated hands on motor control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

Name: Rich Cunningham

Company: Lyondell Basell

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

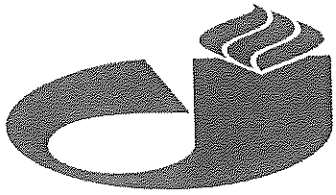
Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

1) Look at Troubleshooting - How To?

Name: Jeff Danner Company: TBTN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

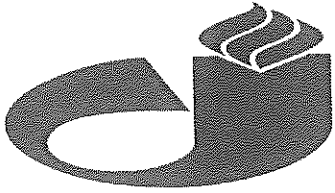
_____ Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

★-SPEND TIME AT THE FIRST CLASS, GO THRU FLUKE METER TRAINING + HOW TO USE THE METER.

Name: STEVE MAYFIELD Company: JSCC

Date: 4-7-2017



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

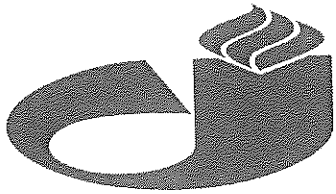
_____ Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

- How to check a motor to see if it is bad.
- Trouble shooting skills.

Name: BRIAN BURNETT Company: TBTW

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
	a. To impart an understanding of electrical motor theory.
	b. To discuss various means of starting, stopping and controlling motors.
	c. To provide hands-on experience in operating and analyzing motor control circuits.
	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

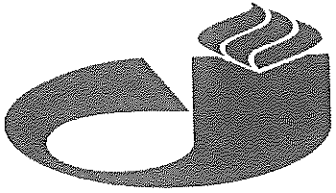
Course has updated hands on motor control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

A Better understanding of Basic components is needed. Hands on, Assembling a motor circuit from nothing, instead of a pre-built circuit, would help them better understand each component's function and also aid in troubleshooting.

Name: Darnel Johansen Company: Toyota Bodine

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 200 – Motors and Motor Controls

This course covers the principles of converting electrical power into mechanical work and mechanical power into electrical power. The basic electromagnetic principles of motors, and motor controls are studied. Motor work, efficiency, torque, and speed shall be addressed in the lab.

<input checked="" type="checkbox"/>	EET 200 Learning Objectives
<input checked="" type="checkbox"/>	a. To impart an understanding of electrical motor theory.
<input checked="" type="checkbox"/>	b. To discuss various means of starting, stopping and controlling motors.
<input checked="" type="checkbox"/>	c. To provide hands-on experience in operating and analyzing motor control circuits.
<input checked="" type="checkbox"/>	d. To develop techniques for troubleshooting motor control circuits.

Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on motion control trainers to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the Motors and Motor Controls class:

Add a hands on segment where the student has to take a box of components and creates a working system

Name: Jairo Lopez Company: Cmsi

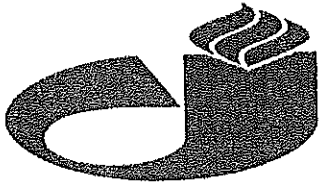
Date: 4-7-17

APPENDIX A

Industrial Technology Curriculum Validation

April 2017

**Feedback for EET 230,
PLC II**



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

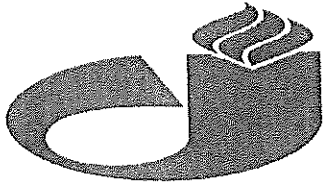
Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

Don't go deep into the extras - make sure the guys can truly read ladder logic and have a real good understanding. Can they actually hook-up and troubleshoot when the day is done?

Name: Rob Kirts Company: SRD

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input checked="" type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input checked="" type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input checked="" type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input checked="" type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

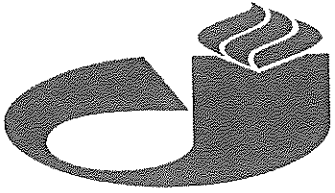
Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

- Programming Safety - when to use PLC's.

Name: Raymond Davis Company: TBDN

Date: 4/1/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input checked="" type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input checked="" type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input checked="" type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input checked="" type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

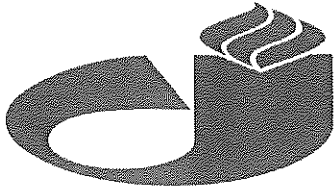
Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

Name: Rich Cunningham Company: LyondellBasell

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

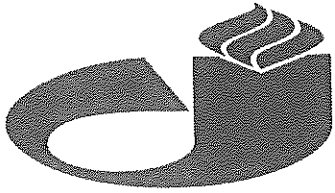
Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

See PLC I Note

Name: Jeff Garner Company: TRIN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

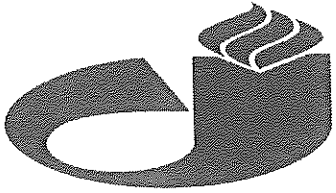
_____ Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

Teach along same line A.B. teaches on Ladder Logic,
AND how PLC's network thru Ethernet.

Name: STEVE MAYFIELD Company: JSCC

Date: 4-7-2017



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

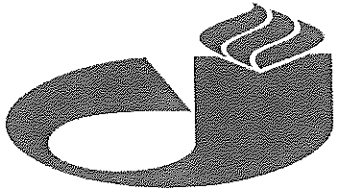
Please list any further topics you feel would enhance the PLC II class:

- Trouble shooting Faults in a program.
- Track wires down to look for damage.

Name: Paul Burnett

Company: IBTN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
	a. The study and usage of the advanced PLC instruction set.
	b. To develop techniques for handling analog inputs and outputs.
	c. To familiarize the student with PLC solutions to process problems in industry.
	d. To familiarize the students with the role of PLC's in networks.
	e. To provide hands-on experience in intermediate and advanced programming techniques.

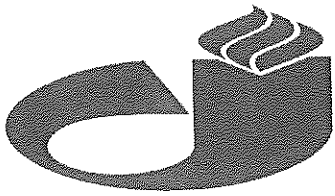
Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

Name: Darrel Johansen Company: Toyota Bodine

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 230 – Programmable Logic Controls II (Third Semester Course)

A continuation of EET 180, PLC I. Advanced instruction set and hardware are discussed in depth. Analog I/O, encoders, PID controls, transducers, and internal file structures and usage are the main topics of interest.

<input checked="" type="checkbox"/>	EET 230 Learning Objectives
<input checked="" type="checkbox"/>	a. The study and usage of the advanced PLC instruction set.
<input checked="" type="checkbox"/>	b. To develop techniques for handling analog inputs and outputs.
<input checked="" type="checkbox"/>	c. To familiarize the student with PLC solutions to process problems in industry.
<input checked="" type="checkbox"/>	d. To familiarize the students with the role of PLC's in networks.
<input checked="" type="checkbox"/>	e. To provide hands-on experience in intermediate and advanced programming techniques.

Additional outcomes expected with curriculum updates started Spring 2017:

Course has updated hands on lab activities to aid with student's ability to apply concepts to real world situations.

Please list any further topics you feel would enhance the PLC II class:

Rockwell Add ON INSTUCTIONS

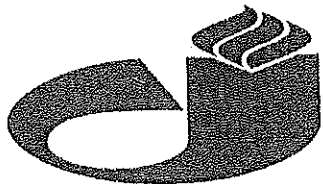
Name: Jere By Company: CMT
Date: 4-7-17

APPENDIX A

Industrial Technology Curriculum Validation

April 2017

**Feedback for EET 270,
Robotics**



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

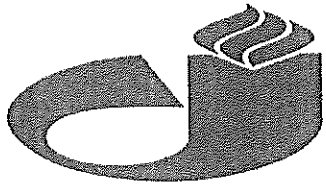
<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input type="checkbox"/>	c. Create, modify, and execute production programs.
<input type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

LOCKED GOOD

Name: ROB KINTS Company: SBD

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

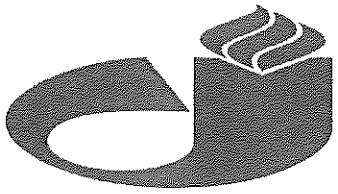
<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input checked="" type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input checked="" type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input checked="" type="checkbox"/>	c. Create, modify, and execute production programs.
<input checked="" type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

- Robot Safety
- Robot Axis types

Name: Reginald Davis Company: TBDN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

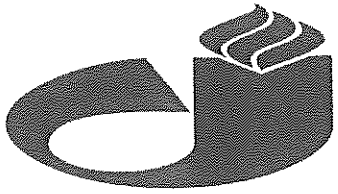
EET 270 – Robotics (Last Semester Course).

This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input checked="" type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input checked="" type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input checked="" type="checkbox"/>	c. Create, modify, and execute production programs.
<input checked="" type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

Name: Rett Cunningham Company: Lyondell Basell
Date: 4-17-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

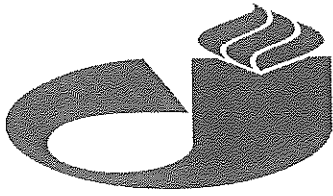
This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input type="checkbox"/>	c. Create, modify, and execute production programs.
<input type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

Name: Jeff Berni Company: TBTN

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

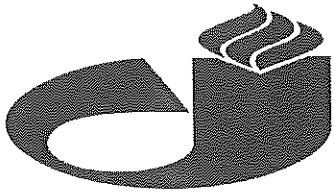
<input checked="" type="checkbox"/>	EET 270 Learning Objectives
	a. Demonstrate powering up and jogging a robot.
	b. Be able to recover from common program and robot faults.
	c. Create, modify, and execute production programs.
	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

spend more time on recovering from crashes getting back to home position and clearing faults.

Name: STEVE MAYFIELD Company: JSCC

Date: 4-7-2017



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

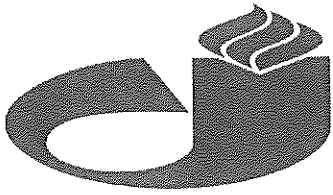
This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input type="checkbox"/>	c. Create, modify, and execute production programs.
<input type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

Name: Ben BA Company: TB7N

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

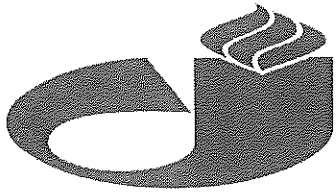
This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

<input checked="" type="checkbox"/>	EET 270 Learning Objectives
	a. Demonstrate powering up and jogging a robot.
	b. Be able to recover from common program and robot faults.
	c. Create, modify, and execute production programs.
	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

Name: Darrel Johansen Company: Toyota Bodine

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 270 – Robotics (Last Semester Course).

This course is designed to introduce the concepts of servo control and automation systems uses in industry standard robot control systems.

<input checked="" type="checkbox"/>	EET 270 Learning Objectives
<input checked="" type="checkbox"/>	a. Demonstrate powering up and jogging a robot.
<input checked="" type="checkbox"/>	b. Be able to recover from common program and robot faults.
<input checked="" type="checkbox"/>	c. Create, modify, and execute production programs.
<input checked="" type="checkbox"/>	d. Develop an understanding of maintenance and troubleshooting techniques and procedures.

Please list any further topics you feel would enhance the Robotics class:

Name: Wade Love Company: CMI

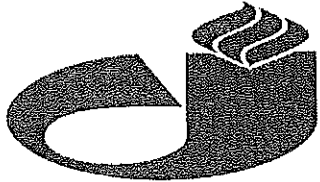
Date: 4-7-17

APPENDIX A

Industrial Technology Curriculum Validation

April 2017

**Feedback for EET 297,
Automatic Processes**



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

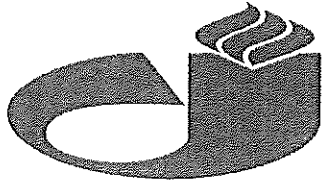
<input checked="" type="checkbox"/>	EET 297 Learning Objectives
	1. To impart an understanding and overview of advanced PLC control instructions.
	2. To familiarize the student with various complex PLC components and system arrangements.
	3. To familiarized the student with programming a closed loop system that is used in industry.
	4. To provide an opportunity for students to work together on various projects as a team
	5. To develop troubleshooting techniques on various control systems and processes.
	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

STUDENTS COULD USE THIS CLASS TO ACTUALLY BUILD A PLC – POWER, SELECT CORRECT CARDS, ADDRESS, WIRE AND RUN + TROUBLESHOOT. MAYBE DRIVE ON DEVICE INTERFACE.

Name: ROB KINTS Company: SBD

Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

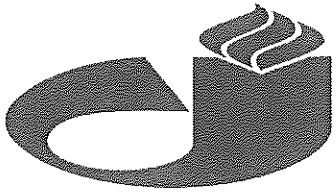
This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
X	1. To impart an understanding and overview of advanced PLC control instructions.
X	2. To familiarize the student with various complex PLC components and system arrangements.
X	3. To familiarized the student with programming a closed loop system that is used in industry.
X	4. To provide an opportunity for students to work together on various projects as a team
X	5. To develop troubleshooting techniques on various control systems and processes.
X	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

- Safety aspect
- LOTO - Lock out tag out
- Arc flash NFPA-70E

Name: Reginald Davis Company: TBDN
 Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

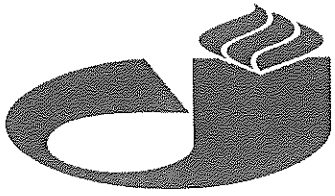
EET 297– Automatic Processes (Last Semester Course).

This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
X	1. To impart an understanding and overview of advanced PLC control instructions.
X	2. To familiarize the student with various complex PLC components and system arrangements.
X	3. To familiarized the student with programming a closed loop system that is used in industry.
X	4. To provide an opportunity for students to work together on various projects as a team
X	5. To develop troubleshooting techniques on various control systems and processes.
X	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

Name: Rich Cunningham Company: Lyndell Basell
Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

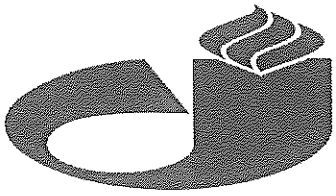
EET 297– Automatic Processes (Last Semester Course).

This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
	1. To impart an understanding and overview of advanced PLC control instructions.
	2. To familiarize the student with various complex PLC components and system arrangements.
	3. To familiarized the student with programming a closed loop system that is used in industry.
	4. To provide an opportunity for students to work together on various projects as a team
	5. To develop troubleshooting techniques on various control systems and processes.
	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

Name: Jeff Darnie Company: TBTN
 Date: 4/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

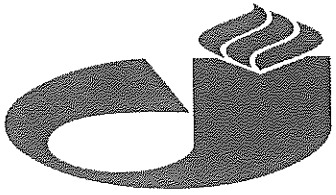
<input checked="" type="checkbox"/>	EET 297 Learning Objectives
	1. To impart an understanding and overview of advanced PLC control instructions.
	2. To familiarize the student with various complex PLC components and system arrangements.
	3. To familiarized the student with programming a closed loop system that is used in industry.
	4. To provide an opportunity for students to work together on various projects as a team
	5. To develop troubleshooting techniques on various control systems and processes.
	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

USE simple closed loop with few components
TO show how loop controls work. Then it would
be easier to troubleshoot.

Name: STEVE MAYFIELD Company: JSCC

Date: 4-7-2017



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

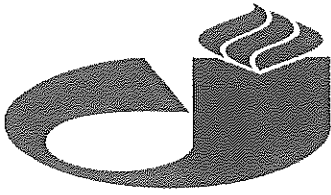
This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
	1. To impart an understanding and overview of advanced PLC control instructions.
	2. To familiarize the student with various complex PLC components and system arrangements.
	3. To familiarized the student with programming a closed loop system that is used in industry.
	4. To provide an opportunity for students to work together on various projects as a team
	5. To develop troubleshooting techniques on various control systems and processes.
	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

Name: Bruce Burnett Company: TBTW

Date: 9/7/17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

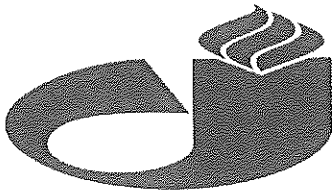
This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
<input type="checkbox"/>	1. To impart an understanding and overview of advanced PLC control instructions.
<input type="checkbox"/>	2. To familiarize the student with various complex PLC components and system arrangements.
<input type="checkbox"/>	3. To familiarized the student with programming a closed loop system that is used in industry.
<input type="checkbox"/>	4. To provide an opportunity for students to work together on various projects as a team
<input type="checkbox"/>	5. To develop troubleshooting techniques on various control systems and processes.
<input type="checkbox"/>	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

Name: Darrel Johansen Company: Toyota Bodine

Date: 4-7-17



Jackson State Community College

Industrial Technology Curriculum Validation – April 2017

Please review the following industrial technology technical course learning objectives and validate by putting an X in the box if you agree that topic and/or course learning objective is vital to the overall knowledge of a multi skilled maintenance or applied manufacturing technician.

EET 297– Automatic Processes (Last Semester Course).

This course is designed to introduce the student to modern process controller uses and control schemes. This control and communication of complex processes are addressed along with sensory devices which pass data back to the controller. Hands-on experience is emphasized in laboratory exercises.

<input checked="" type="checkbox"/>	EET 297 Learning Objectives
<input checked="" type="checkbox"/>	1. To impart an understanding and overview of advanced PLC control instructions.
<input checked="" type="checkbox"/>	2. To familiarize the student with various complex PLC components and system arrangements.
<input checked="" type="checkbox"/>	3. To familiarized the student with programming a closed loop system that is used in industry.
<input checked="" type="checkbox"/>	4. To provide an opportunity for students to work together on various projects as a team
<input checked="" type="checkbox"/>	5. To develop troubleshooting techniques on various control systems and processes.
<input checked="" type="checkbox"/>	6. To become familiar with proper documentation that would be required by industry projects.

Please list any further topics you feel would enhance the Automatic Processes class:

Add on Instruction PLC Training

Name: *John Lee* Company: *CMC*

Date: *4/17*