

*JSCC Engineering Systems Technology  
Advisory Board Meeting – Ayers Auditorium  
April 5, 2024  
8:00 am – 9:30 am*

## Agenda

- *8:00 am: Opening Remarks (T. Pigg / R. Davis)*
- *Program Updates (R. James / ENST Team)*
- *Program Schedule Review (Dr. Pigg / R. James)*
- *Program Funding Efforts (Dr. Pigg)*
- *Workforce Development Efforts (Dr. Pigg / J. McCommon)*
- *2024 Program Recruiting (C. Roberts / C. Werner)*
- *Staff Development (ENST Team)*
- *Curriculum Review (ENST Faculty)*
- *Concentration Expansion Goals (Dr. Pigg / B. Lawrence)*
- *Summary / Conclusion (Dr. Pigg / R. Davis / ENST Team)*

Breakfast / Light morning refreshments will be available during the meeting. Advisory board members / guests will be encouraged to take tours of the lab areas after meeting conclusion.

*JSCC Engineering Systems Technology  
Advisory Board Meeting Minutes – Ayers Auditorium  
April 5, 2024  
8:00 am – 9:30 am*

The Spring 2024 JSCC Engineering Systems Technology Advisory Board (ENST) meeting was held April 5, 2024 on the JSCC campus [Ayers Auditorium], starting shortly after 8 am. Mrs. Sara Youngerman (Transitional Vice-President of Academic Affairs), Dr. Tom Pigg (Dean of Business, CIT, Engineering Systems Technology, and workforce Solutions Director), Advisory Board President Reggie Davis, ENST Department Chair Lisa Matlock, and AMT student chapter president Rylan Coffman providing opening remarks.

The agenda was followed as outlined to the advisory board meeting participants. Roger James provided program updates (enrollment, graduation, exit exam results and placement insights) to the board. Dr. Pigg updated the board with programming schedule review and funding efforts, especially with respect to the upcoming Workforce Solutions facility upgrades to the McWherter building.

Cathi Roberts updated the board with programming recruiting insights and projections with respect to the incoming AMT 11 class. ENST faculty (Benjamin Lawrence and Roger James provided classroom insights to the three [3] classes under board curriculum review for the Spring 2024 Board Meeting (EETC 2350 Robotic Systems, ENST 2350 Lean Manufacturing Systems, and EETC 2361 Instrumentation. Each advisory board meeting participant was given a form to solicit feedback for the three aforementioned courses. Summarization of the comments will be developed and provided as an addition to the meeting minutes. A scan of submitted comments will also be maintained by the department on the department's shared drive folder.

After feedback forms were gathered, Board President Reggie Davis offered closing remarks and guiding comments to all participants. Meeting concluded at 9:40 am. The next advisory board meeting shall tentatively set for the March / April timeframe in 2025.

JSCC Engineering Systems Technology  
 Advisory Board Meeting - Spring 2024

May 5, 2024

Name	Company	Phone	Email
Rich Cunningham	LYONDELLBASELL	731-693-1684	rich.cunningham@lyb.com
Jace Wilson	Stinky Block & Decker	731-487-6198	jace.wilson@sbdna.com
Shawn Wiley	Teknor Apex	731-694-3971	swiley@teknorapex.com
Steve Austin	Sonoco	318-533-4615	Steve.Austin@sonoco.com
Jim Drake	TMMTN	859 443 9260	james.drake@toyota.com
Marty Plunk	Conagra	731-307-8118	marty.plunk@conagra.com
John McCann	JSEC	731-425-8826	
Rylie Wilfong	Student	731-439-1947	rylie.wilfong@gmail.com
Cheri Roberts	JSEC	731-425-9584	
Sara Mallock	JSEC		
Shane Holmes	GP-Dixie	731-225-3884	Shane.holmes@gapac.com
Tom Pigg			
Heesje Davis	TBA		

**JSCC Engineering Systems Technology  
Advisory Board Meeting - Spring 2024**

**May 5, 2024**

Name	Company	Phone	Email
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*Summarized ENST Advisory Board Comments  
Spring 2024*

**EETC 2361 Instrumentation Technology**

**Course:**

Comp. #	Competency	Comp. Agreement	Comp. Agreement	Without Comment	Summarized Comment	ENST Dept Follow Up Comment
1	Describe the control elements of a process control system and explain their function	[6]		[1]	A. Identify any Automation classes with HMI Programming, HMI Communications [To PLC's and sensors], Ethernet Communications, Robot to PLC Communications, Multicell Communication, Vision (Systems). B. Identify any facility classes in Compressors, Chillers, Water Towers.	
2	Identify operation mechanical and electrical pressure instruments and their calibration.	[6]		[1]	C. Identify (insights into) Fork lifts, Scissor lifts, Aerial Lifts, and Cranes (Overhead). D. Correct Course numbering typographical error.	
3	Describe the purpose of controller tuning, tuning coefficients, and performance parameters.	[6]		[1]	E. Additional course insights possibility: Industrial Network for controls / Data Collection F. Inclusion of Temperature & Flow Measurements, if not already included	
4	Define process instrumentation and identify present day trends in the instrumentation field.	[6]		[1]	G. CAD programs could be useful, particularly 3D Solid Modeling / Building Layouts. Possibly in non-Auto CAD environments like SolidWorks. H. Visit Manufacturing facilities for practical application.	
5	Identify common industry standards and organizations that regulate these standards.	[6]		[1]	I. Express the Mathematics, Reading, Problem-Solving, Critical Thinking, Communication Skills Related J. Relative to Item [1], reference compressors, air dryers, and water towers.	
6	Define the different types of signal transmission and communication methodologies.	[6]		[1]	K. [*Suggestions*] Consider some training on calipers, other measuring tools, welding technology (light activity).	
7	Discuss automatic control and identify common terms associated with it.	[6]		[1]		

*Summarized ENST Advisory Board Comments  
Spring 2024*

**EETC 2350 Robotic Systems**

Course:

Comp. #	Competency	Comp. Agreement [6]	Comp. Agreement	Without Comment [1]	Summarized Comment	ENST Dept Follow Up Comment
1	Identify the working axes of a robot	[6]		[1]	A. Any mechanical breakdown; Axes changes, greasing, panel components.	
2	Create a basic program for a pick and place operation using a teach pendant.	[6]		[1]	B. Error Troubleshooting C. Component Replacement (Motor, Cables, TP, etc.) D. RV Replacement	
3	Demonstrate an understanding of how robotic technology is integrated into an automated system	[6]		[1]	E. Preventative Maintenance (noise vibration, grease analysis, disturbance, etc.) F. Vision G. Palletizing, if not already covered. H. Integration of camera use into system. This might be limited because of expensive cameras.	
					I. Any preventative maintenance activity plans 1. Lubrication 2. Battery replacement 3. Motor checking / replacement / cable changes 4. Basic error commands	
					J. Vision / AI Knowledge!	

*Summarized ENST Advisory Board Comments  
Spring 2024*

**ENST 2350 Lean Manufacturing Systems**

Course:

Comp. #	Competency	Comp. Agreement [6]	Comp. Agreement	Without Comment [1]	Summarized Comment	ENST Dept Follow Up Comment
1	Demonstrate an understanding of the basic principles of Lean Manufacturing Systems	[6]		[1]	<ul style="list-style-type: none"> <li>A. Problem solving by using TBP (expand MCE).</li> <li>B. Kanban application (Min, Max, Re-Order Point Side).</li> <li>C. Consider taking the students to see a facility that implements lean processes.</li> </ul>	
2	Apply Lean tools and techniques.	[6]		[1]		
3	Demonstrate the ability to identify the seven wastes in a production system.	[6]		[1]		