CURRICULUM AUDIT OF ALIGNMENT OF INTENDED PROGRAM LEARNING OUTCOMES WITH INDIVIDUAL COURSE OUTCOMES

COURSE#	PROGRAM OUTCOME # 1	PROGRAM OUTCOME # 2	PROGRAM OUTCOME # 3
	System Feasibility	System Definition	System Design
	- define preliminary project scope	- determine, document and communicate operational	- perform safety analysis and identify compliance to standards
	- determine automation requirements	strategies and design requirements	and regulations
	- develop automation strategy	- analyze possible technical solutions in order to define	- establish templates and guidelines to satisfy customer design
	- conduct technical studies to define	best automation strategies	criteria
	development needs and risks	- establish detailed requirements to form the basis for	- create detailed equipment specifications and data sheets
	- perform justification analysis	system designs through hardware and software system	- define data structures and flow models
	- create summary document to	architectures, equipment data sheets, safety policies and	- select the physical communication media, network
	facilitate decision making	vendor recommendations	architectures and protocols
		- generate a project cost estimate	- develop functional specifications development and
		- create a basis-of-design document to summarize project	- design a test plan - perform detailed design drawings
		requirements.	installation details and purchase requisitions
			- prepare construction work packages
ECT 165			
DC Circuits &			
Design			
ECT167			
AC Circuits &			
Design			
ECT170	X	X	X
Intro to IT			
ECT231	X	X	X
Digital Comp			
Design			
ECT280	X	X	X
Intro to Auto			
Mfg Systems			
ECT281	X	X	X
Robotic			
Controls			
ECT381	X	X	X
Robotic Control			
Systems			
ECT444	X	X	X
PLCs & Control			
Sys			
ECT480			

Appl. Robotic.		
Automation		
Systems		
MET103		
Intro to Tech		
Graph w/CAD		
MET203		
Intro to Solid		
Modeling		
MET299		
CAD		
Fundamentals		
MET329		
Fluid Power		
Technology		
MET407		
Tool and Die		
Design		
MFG225		
Manufacturing		
Materials		
MFG370		
Fund of Mach		
Tools		
MFG371		
Mfg. Process &		
Materials		
MFG372		
Plastics		
Technology		
MFG376		
CNC Systems		
TMGT131		
Intro to		
Manufacturing		
TMGT478		
Ind. Org &		
Function		
TMGT492		
Industrial		
Supervision		

Note: For each course or other learning experience, indicate whether the outcome is intended to be met at a basic, intermediate, or advanced level.

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