

2013 Scanning Sheet. Assignment Description: _____ Instructor: _____ Date: _____ Scanned File Name: _____

ABET Outcomes											Rubric or	Example	Outcome #	EET 462 Industrial Automation II (4) - Outcomes Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K	student %	problem		
2	1	2	2	1	1	1					1		1	Use servo drives, controllers and motors in automation systems.
2	1	2	2	1	1	1					1		2	Use actuators, encoders and sensors in automation systems.
2	1	2	2	1	1	1					1		3	Characterize performance of automation equipment.
2	1	2	2	1	1	1					1		4	Use PLC's to control automation equipment.
2	1	2	2	1	1	1					1		5	Measure vibration using accelerometers.
2	1	2	2	1	1	1					1		6	Measure sound levels produced by vibration.
2	1	2	2	1	1	1					1		7	Measure and analyze audio noise frequency spectrum.
2	1	2	2	1	1	1					1		8	Operate a remotely-located automation system via internet.
2	1	2	2	1	1	1					1		9	Use PID loops.
2	1	2	2	1	1	1					1		10	Measure power-line harmonic distortion.
2	1	2	2	1	1	1					1		11	Control test equipment using LabVIEW.
2	1	2	2	1	1	1					1		12	Effectively identify, formulate and implement a control system.
2	1	2	2	1	1	1	2	2	2	1			13	Participate in a group atmosphere for the defining, planning, and execution of an open ended automation problem.
2	1	2	2	1	1	1	2	2		1			14	Develop an understanding of ethical and professional responsibilities in industrial automation.
2	1	2	2	1	1	1				2	1		15	Communicate effectively both verbally and in written form through the preparation of project report and a class presentation.
2	1	2	2	1	1	1					1		16	Study and implement appropriate project documentation standards.
2	1	2	2	1	1	1	2	2		1			17	Develop an understanding of economic issues related to industrial automation systems.
							2						18	A recognition of the need for, and an ability to engage in lifelong learning.
								2					19	An ability to understand professional, ethical and social responsibilities.
									2				20	A respect for diversity and a knowledge of contemporary professional, societal and global issues.
										2			21	A commitment to quality, timeliness, and continuous improvement.

1=supporting contribution

2=significant contribution

Rubric 5: Excellent Mastery of Outcome By Vast Majority of Students 4: Good Mastery of Outcome By Vast Majority of Students 3: Adequate Mastery of Outcome By Majority of Students 2: Marginal Mastery of Outcome By Most Students 1: Lack of Mastery of Concept By Most Students	a.	an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly defined engineering technology activities
	b.	an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
	c.	an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
	d.	an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
	e.	an ability to function effectively as a member or leader on a technical team
	f.	an ability to identify, analyze, and solve broadly-defined engineering technology problems
	g.	an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
	h.	an understanding of the need for and an ability to engage in self-directed continuing professional development
	i.	an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity
	j.	a knowledge of the impact of engineering technology solutions in a societal and global context; and
k.	a commitment to quality, timeliness, and continuous improvement.	
Improvement Suggestions or Comments:		