

2013 Scanning Sheet. Assignment Description:

Instructor: _____ Date: _____ Scanned File Name: _____

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EE 253 Logic Circuits Lab (1) – Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K				
1													1	Test and use TTL chips in digital circuits and systems such as AND, OR, NAND, NOR and XOR logic.
													2	Use adders and comparators to design the type of logic circuits that are used in arithmetic operations, analog-to-digital converters, computers or digital signal processors.
													3	Use flip-flops (JK, D-type, etc.) in counters and shift registers.
													4	Use multiplexers and demultiplexers to implement digital circuits used in data selection, cascaded operation, binary word multiplexing, time division, multiplexing, or logic function generation.
				1									5	Use a hardware description language (HDL), such as ABEL, to model combinational logic circuits and synthesize them using generic array logic (GAL) devices.
				1									6	Use a hardware description language (HDL) to model counters and sequential circuits and synthesize them using generic array logic (GAL) devices.

1=supporting contribution
2=significant contribution

<p>Rubric</p> <p>5: Excellent Mastery of Outcome By Vast Majority of Students</p> <p>4: Good Mastery of Outcome By Vast Majority of Students</p> <p>3: Adequate Mastery of Outcome By Majority of Students</p> <p>2: Marginal Mastery of Outcome By Most Students</p> <p>1: Lack of Mastery of Concept By Most Students</p>	a. an ability to apply knowledge of mathematics, science, and engineering	
	b. an ability to design and conduct experiments, as well as to analyze and interpret data	
	c. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	
	d. an ability to function on multi-disciplinary teams	
	e. an ability to identify, formulate, and solve engineering problems	
	f. an understanding of professional and ethical responsibility	
	g. an ability to communicate effectively	
	h. the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and societal context	
	i. a recognition of the need for, and an ability to engage in life-long learning	
	j. a knowledge of contemporary issues	
	k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	
	Improvement Suggestions or Comments:	