2013 Scanning Sheet. Assignment Description:									ent Description	:		Instructor: Date: Scanned File Name:
ABET Outcomes Rubric or Example									Rubric or	Example	Outcome	
Α	ВС	D	Е	F	G	ΗΙ	,	J	student %	problem	#	EET 340 Programmable Hardware Technology (4) - Outcomes Reviewed 2013
2											1	Describe combinatorial circuits using a hardware description language (HDL) such as Verilog.
2		2	2								2	Design sequential circuit using Mealy and Moore model.
												Use three different modeling styles including data flow, structural, and behavioral to describe a specified
2	2	2	2								3	circuit.
2	2	2	2								4	Describe sequential circuits using a chosed HDL.
2	2	2	2								5	Use hierarchical approach to design complex digital circuit (structural style will be used).
2	2	1									6	Write a testbench to simulate the circuit described in HDL.

combinatorial or sequential digital circuit.

contained in a FPGA demo kit.

with the downloaded file.

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Use software tools provided by a vendor such as Altera to compile the HDL description of a

appropriate I/O devices such as LEDs, 7-seg. Displays, and switches.

Make pin assignment using the software tool when necessary so that signal pins can be routed to

Download the output from the software tools (after compiling the HDL file) onto the FPGA chip

Wire the I/O signals on the FPGA demo kit and verify the circuit operation after the FPGA is configured

an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly defined

1=supporting	contribution

2

2

2=significant contribution	a.	engineering technology activities
Rubric	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
5: Excellent Mastery of Outcome By Vast Majority of Students	c.	an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
4: Good Mastery of Outcome By Vast Majority of Students	d.	an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
3: Adequate Mastery of Outcome By Majority of Students	e.	an ability to function effectively as a member or leader on a technical team
2: Marginal Mastery of Outcome By Most Students	f.	an ability to identify, analyze, and solve broadly-defined engineering technology problems an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and
1: Lack of Mastery of Concept By Most Students	g.	an ability to identify and use appropriate technical literature
Improvement Suggestions or Comments:	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
		a knowledge of the impact of engineering technology solutions in a societal and global
	J. k.	context; and a commitment to quality, timeliness, and continuous improvement.