20	2013 Scanning Sheet. Assignment Description:									Des	scription:]	Instructor: Date: Scanned File Name:
	ABET Outcomes Rubric or Example										Rubric or	Example		
А	в	С	D	ΕF	- (G H	1	I	J	к	student %	problem	Outcome #	EE 484 VLSI Design (3) – Outcomes Revised 2016
				1						1			1	Recognize and analyze basic VLSI logic families including: A. Static CMOS B. Pass transistor logic C. Dynamic logic D. Mixed bipolar – MOS logic
		2		1									3	Identify the basic parasitic elements present in VLSI designs and their effects. Optimize VLSI logic to meet A. Speed specifications B. Power limits
		2		2			1	1	1	1			4	Design both static and dynamic logic circuits compatible with VLSI design principles.
		2		2									5	Understand and are capable of analyzing special purpose digital structures including: A. Memory B. Schmidt triggers C. Phase-locked loops
1				1						2			6	Apply Synopsys application environment to the development of VLSI circuits.

1=supporting contribution

=significant contribution	a. an ability to apply knowledge of mathematics, science, and engineering
Rubric	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,
5: Excellent Mastery of Outcome By Vast Majority of Students	environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4: Good Mastery of Outcome By Vast Majority of Students	d. an ability to function on multi-disciplinary teams
3: Adequate Mastery of Outcome By Majority of Students	e. an ability to identify, formulate, and solve engineering problems
2: Marginal Mastery of Outcome By Most Students	f. an understanding of professional and ethical responsibility
1: Lack of Mastery of Concept By Most Students	g. an ability to communicate effectively
	h. the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and
nprovement Suggestions or Comments:	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