2014 Scanning Sheet. Assignment De	signment Description: Instructor: Date: Scanned File Name:					
ARET Outcomes	Rubric or	Evample				

			ΑB	ET Ou	tcom	ies				Rubric or	Example		
Α	В	С	D	E F	G	Н		J	K	student %	problem	Outcome #	EE 474 Power Electronics (4) - Outcomes Revised 2014
2	2			2				1				1	Understand the electrical characteristics and operation of semiconductor power switching devices.
2	2	2		1				1				2	Specify supplementary components and circuits for semiconductor power switches.
2	2			1				1				3	Understand the principles and methods of electrical power conversion and control.
2	2 2	2		1				1	1			4	Analyze and design AC-DC, DC-DC, AC-AC, and DC-AC converters.
1												5	Understand the basic building blocks of switched-mode DC power supplies.
1				2					1			6	Analyze and design basic DC-DC converters used in switched-mode power supplies.
1	2	2	1						2			7	Conduct laboratory experiments on static power converters and controllers.
1				2		1						8	Use computer-based tools to simulate and analyze power electronic systems.

1=supporting	contribution
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=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			
provement 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			