2013 Scanning Sheet. Assignment Description: Instructor: Date: Scanned File Name:								
ABET Outcomes Rubric or Example						Example		
A B C	DE	G	нι	Jł	K student %	problem	Outcome #	EE 353 Communication Systems Engineering (3) - Outcomes Reviewed 2013
2 1	2		1		1		1	Understand the basics of a communication system.
2	1		1		1		2	Learn how signals are compared in terms of correlation coefficients.
2 1	1		1	2	1		3	Apply autocorrelation function and its applications in Radar and communications.
2 1	1		1	2	1		4	Verify Parseval's theorem for energy and power signals.
2 1	1		1	2	1		5	Assess energy and power spectral densities
2 1	1		1	2	1		6	Evaluate the essential bandwidth of practical signals
2 2 2	1		1	2	1		7	Interpret the importance of modulation process in communications
2 1	2		2	2	1		8	Gain knowledge about Amplitude Modulation ,and AM radio receivers
2 1	2		1	2	1		9	Analyze Frequency and Phase Modulation Schemes and Systems, including FM receivers.
								Understand the applications of PLL (Phase Locked Loop) for frequency tracking and for FM
2 1	2		2	1	1		10	demodulation.
2 1	2		2	1			11	Analyze the importance of sampling theorem
2 1	2		2	1	1		12	Analyze Pulse code Modulation Schemes and PCM systems.
2 1	2		2	1	1		13	Evaluate appropriate line codes for digital communications
2 1	1		2	1	1		14	Evaluate the trade offs between S/N Ratio and Bandwidth for digital communications
2 1	1		2	1	1		15	Evaluation of power spectral density of various line codes for practical line code for applications
2 1	2		2	1	1		16	Evaluate the reasons for Image frequency in communication systems.
1=supporting contribution								
2=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
5: Excellent Mastery of Outcome By Vast Majority of Students						ty of Student	s	c. an ability to design a system, component, or process to meet desired needs within realistic constraints such as
4: Good Mastery of Outcome By Vast Majority of Students						f Students		d. an ability to function on multi-disciplinary teams
3: Adequate Mastery of Outcome By Majority of Students						Students		e. an ability to identify, formulate, and solve engineering problems
2: Marginal Mastery of Outcome By Most Students						nts		I. an understanding of professional and ethical responsibility
1: Lack of Mastery of Concept By Most Students						6		g. an ability to communicate effectively
Improvement Suggestions or Comments:							-	h. the broad education necessary to understand the impact of engineering solution in a global, economic,
								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