Review of Performance: (VEE 235 Digital 2, Fall 2015, 16 students)

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## Institutional Learning Outcomes (ILO):

ILO1: communicate effectively

ILO2: employ critical thinking [& problem solving]

ILO3: possess specific knowledge and skills in a major discipline or professional program of study

ILO4: take responsibility and develop skills for learning

ILO5: interact responsibly with people, cultures, and their environment

## Program Learning Outcomes (PLO)

PLO1: Practice Safety and occupational health procedures in the workplace.

PLO2: Use electronic tools and test equipment competently.

PLO3: Interpret schematic diagrams and waveforms.

PLO4: Build electronic projects to a given specification.

PLO5: Practice a career in the Telecomm Industry.

PLO6: Troubleshoot microwave, fiber optics and telephone system.

SLO#	Program SLO#	I, D, M	ILO	Reflection	/Comment
1. Describe the basic operating principles of registers and memory circuits.	Interpret schematics diagrams and waveforms.	D	2,3,4	The SLO was assess using hands-on trexamination.  Students need more time in hands-on mastery level performance.	·
				Letter Grade	Number of student
				A	2

				В	10
				С	4
2. Identify the purpose and probe the input and output of a 4	Interpret D schematics diagrams and	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination.		
bit storage register.	waveforms.			Students need more time in hands-on a mastery level performance.	and other practical procedure to reach
				Letter Grade	Number of student
				A	2
				В	11
				С	3
3. Identify and describe th function and probe the input and output of a 4 bit shift register.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on treexamination.  Students need more time in hands-on a mastery level performance.	
				Letter Grade	Number of student
				A	3
				В	9
				C	4

4: Identify and describe the function and probe the input and output of an 8 bit shift register.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz as examination.  Students need more time in hands-on and other practical procedure to mastery level performance.	
				Letter Grade	Number of student
				A	2
				В	10
				С	4
5. Describe the normal operation and the characteristics of a 64 bit memory circuit	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination.  Students need more time in hands-on and other practical procedure to rea mastery level performance.	
				Letter Grade	Number of student
				A	2
				В	10
				С	4
6. Describe how counting circuit perform arithmetic functions.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on tro examination.	ubleshooting and written quiz and

				Students need more time in hands-on mastery level performance.	and other practical procedure to reach
				Letter Grade  A  B  C	Number of student  2  10  4
7. Recognize the normal operation of a ripple count circuit.			2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination.  Students need more time in hands-on and other practical procedure to reach mastery level performance.	
				Letter Grade  A  B  C	Number of student 2 10 4
8. Describe the purpose of an up counter circuit.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on trexamination.  Students need more time in hands-on mastery level performance.	roubleshooting and written quiz and
				Letter Grade A	Number of student 3

				В	9
				С	3
				F	1
9. describe the purpose of a down counte circuit.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on treexamination.  Students need more time in hands-on mastery level performance.	
				Letter Grade	Number of student
				A	2
				В	10
				C	3
				F	1
10. Describe the function and the operating characteristic of a 4 bit adder.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on treexamination.  Students need more time in hands-on mastery level performance.	-
				Letter Grade	Number of student
				A	3
				В	9
				С	4

				F	1
11. Describe the normal operation of 4 bit subtractor	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination.  Students need more time in hands-on and other practical procedure to reach mastery level performance.	
				Letter Grade	Number of student
				A	2
				В	9
				С	4
				F	1
12. Explain the basic principles of conversion at data circuits.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination.  Students need more time in hands-on and other practical procedure to reach mastery level performance.	
				Letter Grade	Number of student
				A	2
				В	10
				С	3
				F	1
13. Identify the purpose of D/A conversion circuit and its operating characteristic	schematics	M	2,3,4	The SLO was assess using hands-on trexamination.	oubleshooting and written quiz and

	waveforms.			Students need more time in hands-on a mastery level performance.	and other practical procedure to reach
				Letter Grade	Number of student
				A	2
				В	8
				C	5
				F	1
14. Identify the purpose ar describe the basic operation of a data selector circuit at measure its output signals.	schematics	M	2,3,4	The SLO was assess using hands-on troexamination.  Students need more time in hands-on a mastery level performance.	2
				Letter Grade	Number of student
				A	2
				В	8
				С	5
				F	1
15. Describe the function of a data distribution circuit and its operating characteristic and measure its output signals.	Interpret schematics diagrams and waveforms.	M	2,3,4	The SLO was assess using hands-on troexamination.  Students need more time in hands-on a mastery level performance.	2

		Letter Grade	Number of student
		A	2
		В	9
		С	4
		D	1
mid-term exam.		s got A, 9 got B, 4 got C and 1 got F for sumber of time for hands-on.	not attending the class after the
Signature: Name typed	, position	Date:	