

Review of Performance: (**VEE 240 Signal Processing**, Fall 2013, 11 students)
 Submitted by: Nelchor Permitez Ed. D.

Institutional Student Learning Outcomes (ISLO):

- ILO1: Effective oral communication.
- ILO2: Effective written communication.
- ILO3: Critical Thinking
- ILO4: Problem Solving
- ILO5: Intercultural knowledge and competence.
- ILO6: Information literacy.
- ILO7: Foundations and skills for life-long learning.
- ILO8: Quantitative reasoning.

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	ISLO	Reflection/Comment						
1. Describe analog pulse modulation circuit operation.	Interpret schematic diagrams and waveforms.	D	6,7	The SLO was assess using hands-on troubleshooting and written test. Students need more time in hands-on and other practical procedure to reach mastery level performance.						
				<table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0</td> </tr> <tr> <td>B</td> <td>2</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	0	B	2
Letter Grade	Number of student									
A	0									
B	2									

				C	7								
				D	2								
2. Describe Pulse coded modulation (PCM) circuit, operation and troubleshooting PCM circuit.	Interpret schematic diagrams and waveforms.	D	6,7	<p>The SLO was assess using hands-on troubleshooting and written test.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0</td> </tr> <tr> <td>B</td> <td>2</td> </tr> <tr> <td>C</td> <td>9</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	0	B	2	C	9
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A	0												
B	2												
C	9												
3. Describe Delta modulation (DM) circuit, operation and troubleshoot DM circuit.	Interpret schematic diagrams and waveforms.	M	6,7	<p>The SLO was assess using hands-on troubleshooting and written test.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0</td> </tr> <tr> <td>B</td> <td>2</td> </tr> <tr> <td>C</td> <td>9</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	0	B	2	C	9
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A	0												
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C	9												
4: Describe FSK (Frequency shift keying) circuit, operation and troubleshoot FSK circuit	Interpret schematic diagrams and waveforms.	M	6,7	<p>The SLO was assess using hands-on troubleshooting and written test.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	3				
Letter Grade	Number of student												
A	3												

				B	7								
				C	1								
5. Describe Phase shift Keying (PSK) circuit, operation and troubleshoot PSK circuit.	Interpret schematic diagrams and waveforms.	M	6,7	<p>The SLO was assess using hands-on troubleshooting and written test.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3</td> </tr> <tr> <td>B</td> <td>7</td> </tr> <tr> <td>C</td> <td>1</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	3	B	7	C	1
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6. Describe and analyze Time and Frequency division multiplexing circuit operation and troubleshooting.	Interpret schematic diagrams and waveforms.	M	6,7	<p>The SLO was assess using hands-on troubleshooting and written test.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3</td> </tr> <tr> <td>B</td> <td>7</td> </tr> <tr> <td>C</td> <td>1</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	3	B	7	C	1
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Additional observations: Need to purchase additional set of NIDA cards to accommodate growing number of students enrolled in the course.

Special comments: Out of 11 students, 1 student got A, 6 students got B and 4 students got C.

Recommendations: Need to increase the practice time of students for hands-on activity and buy additional NIDA cards for Signal Processing.

Signature: _____
Name typed, position

Date: December 12, 2013