

Review of Performance: (VEE 240 Signal Processing, Fall 2014, 14 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	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" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> </tr> <tr> <td>B</td> <td>1</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	1	B	1
Letter Grade	Number of student									
A	1									
B	1									

				C	12										
				D	0										
2. Describe Pulse coded modulation (PCM) circuit, operation and troubleshooting PCM circuit.	Interpret schematic diagrams and waveforms.	D	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>1</td> </tr> <tr> <td>B</td> <td>2</td> </tr> <tr> <td>C</td> <td>11</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	1	B	2	C	11		
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A	1														
B	2														
C	11														
3. Describe Delta modulation (DM) circuit, operation and troubleshoot DM circuit.	Interpret schematic diagrams and waveforms.	M	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>1</td> </tr> <tr> <td>B</td> <td>1</td> </tr> <tr> <td>C</td> <td>12</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	1	B	1	C	12		
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B	1														
C	12														
4: Describe FSK (Frequency shift keying) circuit, operation and troubleshoot FSK circuit	Interpret schematic diagrams and waveforms.	M	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>1</td> </tr> <tr> <td>B</td> <td>1</td> </tr> <tr> <td>C</td> <td>11</td> </tr> <tr> <td>F</td> <td>1</td> </tr> </tbody> </table>		Letter Grade	Number of student	A	1	B	1	C	11	F	1
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B	1														
C	11														
F	1														
5. Describe Phase	Interpret	M	7	The SLO was assess using hands-on troubleshooting and written test.											

shift Keying (PSK) circuit, operation and troubleshoot PSK circuit.	schematic diagrams and waveforms.			<p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1" data-bbox="932 350 1911 540"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> </tr> <tr> <td>B</td> <td>2</td> </tr> <tr> <td>C</td> <td>10</td> </tr> <tr> <td>F</td> <td>1</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	1	B	2	C	10	F	1
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A	1													
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6. Describe and analyze Time and Frequency division multiplexing circuit operation and troubleshooting.	Interpret schematic diagrams and waveforms.	M	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" data-bbox="932 761 1911 945"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> </tr> <tr> <td>B</td> <td>1</td> </tr> <tr> <td>C</td> <td>11</td> </tr> <tr> <td>F</td> <td>1</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	1	B	1	C	11	F	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: 14 out of 15 or 93% students of the students got a grade of C or higher. 1 student got A, 1 student got B, 11 students got C and 1 got F.

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

Signature: NELCHOR T. PERMITEZ
Professor

Date: December 10, 2014