Review of Performance:VTE 270 Telecommunication Systems Spring 2016, (16 students)Submitted by:Danilo S. Ibarrola

## Institutional Student Learning Outcomes (ISLO):

- **ILO1:** Effective oral communication.
- **ILO2:** Effective written communication.
- **ILO3:** Critical Thinking
- **ILO4:** Problem Solving
- **ILO5:** Inter-cultural knowledge and competence.
- **ILO6:** Information literacy.
- **IL07:** 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 Telecom Industry.
- PLO6: Troubleshoot microwave, fiber optics, radio communication and telephone system.

SLO#	Program SLO#	I, D, M	ISLO		Reflection/C	Comment		
<ol> <li>Describe the basic fundamentals of a telecom system.</li> </ol>	Interpret schematic diagrams and waveforms.	D	7	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Students are more interested to see the actual telecommunication system in actual application Result of assessment is shown below:				
				No. of Students	Score	Comment	Percentage	
				2	69 or lower	Failed	12.5 %	
				14	70 or better	Passed	87.5 %	

				Students need more reach mastery level p		n and other pr	actical procedure to
2. Describe the various types of connection links used by industry for telecommunication system worldwide.	InterpretDschematicInterpretdiagrams andInterpretwaveforms.Interpret			SLO was assessed using hands-on experiment and written test question using the assessment criteria as stated in the course outline. Students are more interested when they saw and touch the actual connection link used in telecommunication. Result of assessment is shown below:			
,				No. of Students	Score	Comment	Percentage
				2	69 or lower	Failed	12.5 %
				14	70 or better	Passed	87.5 %
3. Describe the common	Interpret	М	7	using the assessment criteria as stated in the course out assessment is shown below:			
switching operations found in the telecommunications industry.	schematic diagrams and waveforms.			using the assessmen assessment is shown	nt criteria as state below:	ed in the cours	e outline. Result of
found in the telecommunications	schematic diagrams and			using the assessment assessment is shown No. of Students	nt criteria as state below: Score	ed in the cours	e outline. Result of Percentage
found in the telecommunications	schematic diagrams and			using the assessment assessment is shown No. of Students 3	nt criteria as state below: Score 69 or lower	ed in the cours           Comment           Failed	e outline. Result of Percentage 18.75 %
found in the telecommunications	schematic diagrams and			using the assessment assessment is shown No. of Students	score 69 or lower 70 or better 5 time in hands-o	ed in the cours Comment Failed Passed	Percentage 18.75 % 81.25 %

diagrams and			No. of Students	Score	Comment	Dorcontago	
waveforms.						Percentage 0 %	
						100 %	
					n and other pr	actical procedure	
Interpret schematic diagrams and waveforms.	M	7	SLO was assessed using hands-on experiment and written test que using the assessment criteria as stated in the course outline. Students able to describe how multiple signals can be sent in one community medium. Result of assessment is shown below:				
			No. of Students	Score	Comment	Percentage	
			1	69 or lower	Failed	6.25 %	
			15	70 or better	Passed	93.75 %	
Interpret	M	7	reach mastery level p	erformance.			
schematic diagrams and		,	using the assessmen	nt criteria as state ferent topology	ed in the cour and hardware	se outline. Stude	
waveforms.						wn below:	
waveforms.			No. of Students	Score	Comment	wn below: Percentage	
waveforms.			No. of Students	1	Comment Failed	1	
-	Interpret schematic diagrams and waveforms.	Interpret M schematic diagrams and waveforms.	Interpret M 7 schematic diagrams and waveforms. Interpret M 7	Interpret       M       7       SLO was assessed us using the assessment able to describe how medium. Result of as         Maxweforms.       M       7       SLO was assessed us using the assessment able to describe how medium. Result of as         Interpret       M       7       SLO was assessed us using the assessment able to describe how medium. Result of as         Interpret       M       7       Students need more reach mastery level p         Interpret       M       7       Students need more reach mastery level p         Interpret       M       7       SLO was assessed us using the assessment able assessment able to describe how medium. Result of as         Interpret       M       7       Students need more reach mastery level p         Interpret       M       7       SLO was assessed us using the assessment assessment able able able able able able able able	Interpret schematicM7SLO was assessed using hands-on exp using the assessment criteria as stated able to describe how multiple signals medium. Result of assessment is showNo. of StudentsScore169 or lower1570 or betterStudents need more time in hands-on exp using the assessment criteria as stated able to describe how multiple signals medium. Result of assessment is showNo. of StudentsScore169 or lower1570 or betterStudents need more time in hands-on reach mastery level performance.Interpret schematicM7SLO was assessed using hands-on exp using the assessment criteria as stated using the assessment criteria as stated	069 or lowerFailed1670 or betterPassed1670 or betterPassedStudents need more time in hands-on and other pr reach mastery level performance.InterpretM7SLO was assessed using hands-on experiment and w using the assessment criteria as stated in the course of able to describe how multiple signals can be sent in medium. Result of assessment is shown below:No. of StudentsScoreComment 1169 or lowerFailed1570 or betterPassedStudents need more time in hands-on and other pr reach mastery level performance.InterpretM7SLO was assessed using hands-on experiment and w using the assessment criteria as stated in the course or betterInterpretM7SLO was assessed using hands-on experiment and w using the assessment criteria as stated in the course using the assessment criteria as stated in the course	

**Special comments:** 16 out of 16 or 100% of the students got a grade of C and higher.

Summary of Grades:

A+	=	0	
Α	=	0	
A-	=	1	
B+	=	5	
В	=	5	
B-	=	1	
C+	=	1	
С	=	3	
C- F	=	0	
F	=	0	

**Recommendations** Annual visit to telecommunications partners is necessary for the students to fully understand the actual devices functions, connections and actual operations in the field.

Signature: DANILO S. IBARROLA Instructor Date: May 6, 2016