

**Review of Performance:** VTE 280 Telephone System Spring 2017, (12 students, 11 males 1 female)  
**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.
- 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 Telecom Industry.
- PLO6:** Troubleshoot microwave, fiber optics, radio communication and telephone system.

SLO#	Program SLO#	I, D, M	ISLO	Reflection/Comment	
1. Describe the major sections of the basic elements in a telephone system.	Troubleshoot microwave, fiber optics, radio communication and telephone system.	M	7	<b>Course Result</b>	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. <b>12 (11 male &amp; 1 female)</b> out of <b>12</b> students ( <b>100%</b> ) completed the CSLO.
				<b>Target Met</b>	Yes
				Students need more time in hands-on and other practical procedure to reach mastery level performance.	

2. Describe the telephone system used in the U.S and the F.S.M.	Troubleshoot microwave, fiber optics, radio communication and telephone system.	M	7	<b>Course Result</b>	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. <b>12 (11 male &amp; 1 female)</b> out of <b>12</b> students ( <b>100%</b> ) completed the CSLO.
				<b>Target Met</b>	Yes
Students need more time in hands-on and other practical procedure to reach mastery level performance.					
3. Describe and troubleshoot the operations of the mechanical and electronic telephone sets.	Troubleshoot microwave, fiber optics, radio communication and telephone system.	M	7	<b>Course Result</b>	SLO was assessed using hands-on troubleshooting and written test questions using the assessment criteria as stated in the course outline. <b>12 (11 male &amp; 1 female)</b> out of <b>12</b> students ( <b>100%</b> ) completed the CSLO.
				<b>Target Met</b>	Yes
Students need more time in hands-on and other practical procedure to reach mastery level performance.					
4. Describe and demonstrate the two methods of signal processing and the types of connection links that are commonly used in today's telephone system.	Troubleshoot microwave, fiber optics, radio communication and telephone system.	M	7	<b>Course Result</b>	SLO was assessed using hands-on troubleshooting and written test questions using the assessment criteria as stated in the course outline. <b>12 (11 male &amp; 1 female)</b> out of <b>12</b> students ( <b>100%</b> ) completed the CSLO.
				<b>Target Met</b>	Yes
Students need more time in hands-on and other practical procedure to reach mastery level performance.					

5. Describe cellular telephone from a theoretical and hardware perspective.	Troubleshoot microwave, fiber optics, radio communication and telephone system.	M	7	<b>Course Result</b>	SLO was assessed using hands-on troubleshooting and written test questions using the assessment criteria as stated in the course outline. <b>12 (11 male &amp; 1 female)</b> out of <b>12</b> students ( <b>100%</b> ) completed the CSLO.
				<b>Target Met</b>	Yes
				Students need more time in hands-on and other practical procedure to reach mastery level performance.	

**Special comments:** 12 out of 12 (11 males 1 female) or 100% of the students got a grade of C and higher.

**Summary of Grades:**

**A+ = 0**  
**A = 0**  
**A- = 6**  
**B+ = 4**  
**B = 2**  
**B- = 0**  
**C+ = 0**  
**C = 0**  
**C- = 0**  
**F = 0**

**Recommendations:** Laboratory equipment (NIDA cards) for Telephone System must be enough for at least 3 to 5 sets to be able for the students to perform their required experiments. Telephone sets (mechanical and electronics) and phone simulator tone generator equipment are needed to enhance the knowledge and skills of the students in the current trends in modern telecommunication and to facilitate wired and wireless phone troubleshooting.

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**Date:** May 5, 2017