Review of Performance: (**VEE 230 Radio communication**, Fall 2016, 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.
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 Telecomm Industry.
PLO6: Troubleshoot microwave, fiber optics and telephone system.

SLO#	Program SLO#	I, D, M	ISLO	Reflection/Comment
1. Describe basic communication system and signal processing techniques.	5. Practice career in telecommunication industry. 6. Trouble - shoot microwave, fiber optic, radio	I	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by a written quiz.

	communication and telephone system			
2. Describe amplitude modulation (AM) and frequency modulation (FM) signals	5. Practice career in telecommunication industry. 6. Troubleshoot microwave, fiber optic, radio communication and telephone system	D	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
3. Describe AM and FM signal path and circuit.	5. Practice career in telecommunication industry. 6. Troubleshoot microwave, fiber optic, radio communication and telephone	D	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.

	system			
4. Describe AM and FM modulator and demodulator.	5. Practice career in telecommunication industry. 6.Troubleshoot microwave, fiber optic, radio communication and telephone system	D	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
5. Monitor modulated signal in AM and FM receiver.	5.Practice career in telecommunication industry. 6.Troubleshoot microwave, fiber optic, radio communication and telephone system	D	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
6 . Troubleshoot AM and FM transmitter and receiver..	5.Practice career in telecommunication industry.	M	7	14 students (3 females; 11 males) out of 14 students (100%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.

	6.Troubleshoot microwave, fiber optic, radio communicatio n and telephone system			

Additional observations: Need to purchase additional set of Radio communication FM, AM and SSB NIDA cards to accommodate growing number of students enrolled in the course.

Special comments: 14 students got a grade of C or higher..

Recommendations: Modify the course outline must include topics such as include high frequency (HF) radio transceiver, citizens band (CB) transceiver, and transceiver station setup and antenna installation in the topics and increase the allotted time for hands-on. In addition, cellular phone technology and servicing must be included on this course. Must buy 4 sets of Card #441,442,443 FM and AM receiver card for NIDA radio communication activity some of our cards are already non functional and need to be replace.

Submitted by: Date: December 9, 2016

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