Review of Performance: Course: VEM 104 Basic Electricity II/P1

Submitted by: Cirilo B. Recana

Semesters: Spring 2016

No. of Student: 14

Institutional Learning Outcomes (ILO's)

1. Effective oral communication

- 2. Effective written communication
- 3. Critical thinking
- 4. Problem solving
- 5. Intercultural knowledge and competence
- 6. Information literacy
- 7. Foundations and skills for life-long learning
- 8. Quantitative reasoning

Program Learning Outcomes (PLO's)

- 1. Practice safety and occupational health procedures in the workplace.
- 2. Use electricity hand and power tools competently.
- 3. Test electrical equipment.
- 4. Interpret schematic wiring diagrams and waveforms.
- 5. Determine the amount of load per circuit.
- 6. Install residential wiring circuits according to given specification and plan.

SLO#	Program SLO#	IDM	ILO	Reflection/Comment		
Describe electrical principles of alternating current and various AC waveforms.		I, D	4,6	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:		
	4			No. of students	Score	Comment
				2	69 or lower	failed
				12	70 or better	passed
				86% of the students passed this SLO. **Observation: students with low scores – reason was due to reading comprehension problem.		
2. Competently use AC test equipment	3	I, D	6,7	SLO was assessed by written test questions and a performance exam using the assessment criteria as stated in the course outline. Result of assessment is shown below:		

				No. of students	Score	Comment		
				2	69 or lower	failed		
				12	70 or better	passed		
				86% of the students	86% of the students passed this SLO.			
				Program needs to purchase 5 analog multi-meters Note: Circuit board construction was also introduced to transform circuit sketching to actual circuits. Additionally, circuit analysis is also conducted to compare circuit calculations to circuit measurements.				
3.Calculate resistance, inductance and capacitance of an AC circuit.				exam using the asse	O was assessed by written test questions and a performance in using the assessment criteria as stated in the course ine. Result of assessment is shown below:			
	4	I,D	4,7	No. of students	Score	Comment		
				5	69 or lower	failed		
				9	70 or better	passed		
				poor math skills, me (scientific) notation Observation: To me must first have a ful the testing equipment	nts with low scores — winly the application of and using scientific aster the use of testing lunderstanding of the this SLO. In addition	of engineering		
4.Calculate and perform RCL Circuit troubleshooting	4	I,D	4,7	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:				

				No. of students	Score	Comment		
				5	69 or lower	failed		
				9	70 or better	passed		
				64% of the student	% of the student passed this SLO.			
				Program needs to p	eds to purchase 5 analog multi-meters			
		Observation: Contributing factors for low scores were a poor English skills, poor math skills, and the lack of students of the pace of the class, most parts of hands-on experimentation were not delivered because of needed additional time spent on theoretical concept and circuit calculation.				the lack of studying. f hands-on use of needed		
5. Demonstrate transformer action and relays and electrical circuit.	3,4	D	7	assessment criteria	O was assessed by written test questions using the ssment criteria as stated in the course outline. Result of ssment is shown below:			
				No. of students	Score	Comment		
				2	69 or lower	failed		
				12	70 or better	passed		
				86% of the student passed this SLO. Observation: Contributing factors for low scores were due to poor English skills, poor math skills, and the lack of studying. Due to the pace of the class, most parts of hands-on experimentation were not delivered because of needed additional time spent on theoretical concept and circuit calculation.				

I – Introduced, D – Developing, M - Mastery

FINAL GRADES:

A = 3 B = 3 C = 6 D = 0 F = 2

Recommendations:

To improve fundamental knowledge and practical hands-on skills, utilize **more** circuit construction activities with bread-boarding techniques, in which will allow students to design, construct, analyze (calculation and measurement), and perform basic troubleshooting skills on series and parallel circuits.

Signature: (Sgd.) <u>Cirilo B. Recana</u> Date: May 2016

Instructor