Review of Performance: VEE 103 Electronics Fundamentals I Fall 2017, (19 students) P2

Submitted by: Danilo S. Ibarrola

Institutional Student Learning Outcomes (ISLO):

ILO1: Effective oral communication. **ILO2:** Effective written communication.

ILO3: Critical ThinkingILO4: 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.

SLO#	Program	I, D, M	ISLO	Reflection/Comment	
	SLO#				
Describe the fundamentals of voltage and current and the behavior of these parameters in simple	3. Interpret schematic diagrams and waveforms.	I, D	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 16 (15 male & 1 female) out of 19 students (84.21%) completed the CSLO.
electrical circuits.				Target Met	Yes
				Students need more time in hands-on and other practical procedure to reach mastery level performance.	

2. Explain the purpose and identify the various types of resistors and their symbols. Identify the value, power rating	3. Interpret schematic diagrams and waveforms.	I,D	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 17 (17 male & 0 female) out of 19 students (89.47%) completed the CSLO.
and tolerance of				Target Met	Yes
resistors using various types of industry codes.				Students need more time in hands-on and other practical procedure to reach mastery level performance.	
3. Describe the purpose and types of switches, fuses and circuit	3. Interpret schematic diagrams and	I, D	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 19 (18 male & 1 female) out of 19 students (100%)
breakers and identify their schematic symbols.	waveforms.			Students need more mastery level performance of the control of the	Yes e time in hands-on and other practical procedure to reach
4. Define magnetism and electromagnetism and their characteristics;	3. Interpret schematic diagrams and	I, D	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 19 (18 male & 1 female) out of 19 students (100%)
describe how these	waveforms.			Target Met	Yes
characteristics are utilized in the operation of the relay, magnetic circuit breaker and meter.				Students need more time in hands-on and other practical procedure to reach mastery level performance.	
5. Describe the function of the multimeter and its controls. Safely and accurately use a	1.Practice safety and occupational health	I, D, M	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 18 (17 male & 1 female) out of 19 students (94.74%) completed the CSLO.
multimeter to measure				Target Met	Yes

the circuit quantities of resistance, voltage, and current.	procedures in the workplace. 2.Use electronics tools and test equipment competently. 3. Interpret schematic diagrams and waveforms.			Students need more mastery level perfo	e time in hands-on and other practical procedure to reach rmance.
6. Using Ohm's Law to define the relationship between resistance, voltage, current, and power in an electrical circuit. By experimentation prove Ohm's Law.	3. Interpret schematic diagrams and waveforms.	I, D	4, 6,7	Target Met Students need more mastery level perfo	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 17 (16 male & 1 female) out of 19 students (89.47%) completed the CSLO. Yes e time in hands-on and other practical procedure to reach rmance.
7. Identify the following circuits, calculate and measure the circuit parameters of voltage, resistance, and current. Troubleshoot the series, parallel and seriesparallel circuits. a. Series Circuit b. Parallel Circuit	3. Interpret schematic diagrams and waveforms.	I, D	4, 6, 7	Target Met Students need more mastery level perfo	SLO was assessed by written test questions using the assessment criteria as stated in the course outline 17 (16 male & 1 female) out of 19 students (89.47%) completed the CSLO. Yes e time in hands-on and other practical procedure to reach rmance.

c. Series and Parallel Circuit d. Voltage Divider Circuit e. Bridge Circuit						
8. Simplify and analyze complex circuits using the following methods: a. Kirchhoff's Laws	3. Interpret schematic diagrams and waveforms.	I, D	6,7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline 18 (17 male & 1 female) out of 19 students (94.74%) completed the CSLO.	
b.Thevenin's Theorem c. Norton's Theorem.				Target Met	Yes	
c. Norton 3 medicin.				Students need more time in hands-on and other practical procedure to reach mastery level performance.		

Special comments: 18 out of 19 or 94.74% of the students got a grade of C and higher and 1 or 5.26% got a grade of D.

Summary of Grades:

A+	=	0
Α	=	0
A-	=	3
B+	=	2
В	=	3
B-	=	3
C+	=	2
C	=	3
C-	=	2
D+	=	1
D	=	0
D-	=	0
F	=	0

Recommendations: Laboratory equipment (NIDA cards) for Electronics Fundamentals I must be enough for at least 3 to 5 sets to be able for the students to perform their required experimentation. Additional quality analog and digital multi-meter must also be purchase so that more hands on experimentation can be done.

Signature: DANILO S. IBARROLA Date: DEC. 2017

Instructor