

Review of Performance: VEE 266 Rotating Machinery  
 Submitted by: Cirilo Recana

No. of Student: 7  
 Semesters: Fall 2017

**Institutional Student Learning Outcomes (ISLO'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.
7. Identify and interpret basic solid state (electronics) symbols and circuits schematics commonly found in the electrical industry.
- 8. Analyze circuit operation on basic motors.**
- 9. Perform basic troubleshooting on basic motors.**
10. Install and perform basic maintenance on air-conditioning units.
11. Interpret and install circuits according to rules and regulations of the National Electrical Code book.
12. Install and analyze basic motor control circuits.

SLO#	PLO	I, D, M	ISLO	Reflection/Comment									
SLO#1 Describe the various devices that are called rotating machinery.	3	I (introduced level)	3	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table>	No. of students	Score	Comment	0	69 or lower	Failed	7	70 or better	Passed
No. of students	Score	Comment											
0	69 or lower	Failed											
7	70 or better	Passed											

				100% of the students passed									
SLO#2 Describe the operating characteristics of DC & AC Motors and Generators.	3	I,D (introduced and demonstrate level)	8	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>100% of the students passed</p>	No. of students	Score	Comment	0	69 or lower	Failed	7	70 or better	Passed
No. of students	Score	Comment											
0	69 or lower	Failed											
7	70 or better	Passed											
SLO#3 Describe Stepper Motor and its operating characteristics.	3	I,D (introduced and demonstrate level)	8	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>100% of the students passed</p> <p><b>Observation:</b> <i>Due to lack of experiment card provided by NIDA Corp. Experiment in this SLO was not performed only the theoretical part of the lesson was attained.</i></p>	No. of students	Score	Comment	0	69 or lower	Failed	7	70 or better	Passed
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0	69 or lower	Failed											
7	70 or better	Passed											
SLO#4 Observe and troubleshoot DC & AC motors.	3, 9	D, M (demonstrate and mastery level)	7	<p>SLO was assessed by simulation using the Simutech software criteria. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>100% of the students passed</p> <p><b>Observation:</b> <i>For better understanding of motor/generator principle, class conducted plant visit to</i></p>	No. of students	Score	Comment	0	69 or lower	Failed	7	70 or better	Passed
No. of students	Score	Comment											
0	69 or lower	Failed											
7	70 or better	Passed											

				<i>have students gain hands-on experience.</i>
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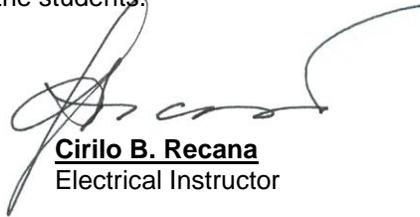
FINAL GRADES BREAKDOWN:

**A = 1**      **B+ = 3**      **B- = 0**      **B = 3**      **C+ = 0**      **D = 0**      **F = 0**

**Recommendations:** Laboratory equipments such as different types of motors must be sufficiently provided so that lab exercises will be able to perform by the students. It is suggested that at least a maximum of 15 students per class with a 1:3 lab equipment ratios.

Course modification is suggested to include hands-on motor driven servicing appliances at the end of the course to effectively test the competency learned by the students.

Signature:



**Cirilo B. Recana**  
Electrical Instructor

Date Submitted: December 2017