

Circuit Analysis I

08/23/2022



Program/Course Assessment - Electronic Engineering Technology (AS)

ELET131N:Circuit Analysis I

<i>Course Competencies</i>	<i>Assessment Methods</i>	<i>Results</i>	<i>Use of Results</i>
1. Current, Voltage and Power - Define and solve for current, voltage, resistance, and power in series, parallel, and series-parallel electric circuits using both scientific and engineering notation. Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022 (Fall)	Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL). *Criterion: Average of POL for all students ≥ 7.0 out of 10.0	Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met Average of POL for all students = 7.53 out of 10.00 (06/01/2022) Total # of Students Assessed: 17 Related Documents: EET Assessment Report 5-31-22.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx	Use of Results: See "Related Documents" under Results for more information. (06/01/2022)
		Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 8.01 out of 10.00 (06/01/2021) Total # of Students Assessed: 21 Related Documents: Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET131N Grades Fall 2020.xlsx ELET131N-1_F2020_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (06/01/2021)
		Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 8.21 out of 10.00 (06/01/2020)	Use of Results: See "Related Documents" under Results for more information. (06/01/2020)

Course Competencies	Assessment Methods	Results	Use of Results
		<p>Total # of Students Assessed: 15 Related Documents: ELET131N Grades Fall 2019.xlsx ELET131N_F2019_Assessment.docx</p> <hr/> <p>Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 8.64 out of 10.00 (06/01/2019) Total # of Students Assessed: 12 Related Documents: ELET131N Grades Fall 2018.xlsx ELET131N_F2018_Assessment.docx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 8.24 out of 10.00 (02/05/2018) Total # of Students Assessed: 28 Related Documents: ELET Assessment Meeting Notes 020518.docx ELET131N - 1 F2017 Exam Grades Evals wksheet.xlsx ELET131N -A F2017 Exam Grades Evals wksheet-2.xlsx ELET131N-A_F2017_Assessment -2 (1).docx ELET131N-1_F2017_Assessment.docx</p> <hr/> <p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met 64.70% (05/18/2022) Total # of Students Assessed: 17 # of Students Meeting Criteria: 11 Related Documents: ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx EET Assessment Report 5-31-22.docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2019)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (02/05/2018)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (06/08/2022)</p>
<p>2. Ohm's Law and Kirchoff's Laws - Calculate voltages and currents using Ohm's law, Kirchoff's voltage and current laws as well as voltage and</p>	<p>Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL). *Criterion: 50% of students achieve >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met Average of POL for all students = 7.37 out of 10.00 (06/01/2022)</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2022)</p>

Course Competencies	Assessment Methods	Results	Use of Results
current divider equations Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022 (Fall)	performance for this point of learning (POL). *Criterion: Average of POL for all students >= 7.0 out of 10.0	Total # of Students Assessed: 17 Related Documents: EET Assessment Report 5-31-22.docx ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx	Use of Results: See "Related Documents" under Results for more information. (06/01/2021)
		Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 7.67 out of 10.00 (06/01/2021) Total # of Students Assessed: 21 Related Documents: Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET131N Grades Fall 2020.xlsx ELET131N-1_F2020_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (06/01/2020)
		Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 7.66 out of 10.00 (06/01/2020) Total # of Students Assessed: 15 Related Documents: ELET131N Grades Fall 2019.xlsx ELET131N_F2019_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (06/01/2019)
		Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 8.54 out of 10.00 (06/01/2019) Total # of Students Assessed: 12 Related Documents: ELET131N Grades Fall 2018.xlsx ELET131N_F2018_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (02/05/2018)
		Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 8.30 out of 10.00 (02/05/2018) Total # of Students Assessed: 28	

Course Competencies	Assessment Methods	Results	Use of Results
	<p>Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL). *Criterion: 50% of students achieve >= 7.0 out of 10.0</p>	<p>Related Documents: ELET Assessment Meeting Notes 020518.docx ELET131N - 1 F2017 Exam Grades Evals wksheet.xlsx ELET131N -A F2017 Exam Grades Evals wksheet-2.xlsx ELET131N-1_F2017_Assessment.docx ELET131N-A_F2017_Assessment-2 (1).docx</p> <p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met 64.70% (02/01/2022) Total # of Students Assessed: 17 # of Students Meeting Criteria: 11</p> <p>Related Documents: ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx EET Assessment Report 5-31-22.docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/08/2022)</p>
<p>3. Branch, Mesh and Nodal Analysis - Calculate electrical quantities using the branch-current analysis, mesh analysis, and nodal analysis methods Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022 (Fall)</p>	<p>Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL). *Criterion: Average of POL for all students >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Not Met Average of POL for all students = 6.85 out of 10.00 (06/01/2022) Total # of Students Assessed: 17</p> <p>Related Documents: EET Assessment Report 5-31-22.docx ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2022)</p>
		<p>Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 7.09 out of 10.00 (06/01/2021) Total # of Students Assessed: 21</p> <p>Related Documents: Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET131N Grades Fall 2020.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2021)</p>

Course Competencies	Assessment Methods	Results	Use of Results
		ELET131N-1_F2020_Assessment.docx Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 7.71 out of 10.00 (06/01/2020) Total # of Students Assessed: 15 Related Documents: ELET131N Grades Fall 2019.xlsx ELET131N_F2019_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (06/01/2020)
		Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 7.85 out of 10.00 (06/01/2019) Total # of Students Assessed: 12 Related Documents: ELET131N Grades Fall 2018.xlsx ELET131N_F2018_Assessment.docx	Use of Results: See "Related Documents" under Results for more information. (06/01/2019)
		Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 7.24 out of 10.00 (02/05/2018) Total # of Students Assessed: 28 Related Documents: ELET Assessment Meeting Notes 020518.docx ELET131N - 1 F2017 Exam Grades Evals worksheet.xlsx ELET131N -A F2017 Exam Grades Evals worksheet-2.xlsx ELET131N-1_F2017_Assessment.docx ELET131N-A_F2017_Assessment -2 (1).docx	Use of Results: See "Related Documents" under Results for more information. (02/05/2018)
	Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL). *Criterion: 50% of students achieve >= 7.0 out of 10.0	Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met 64.70% (02/01/2022) Total # of Students Assessed: 17 # of Students Meeting Criteria: 11 Related Documents: ELET131N Section 1 Assessment Fall 2021.docx ELET131N Section 1 Grades Fall 2021.xlsx ELET131N Section A Assessment Fall 2021.docx ELET131N Section A Grades Fall 2021.xlsx EET Assessment Report 5-31-22.docx	Use of Results: See "Related Documents" under Results for more information. (06/08/2022)

Course Competencies	Assessment Methods	Results	Use of Results
<p>4. Superposition, Thevenin's, Norton's and Maximum Power Theorems - Solve complex circuits by applying Superposition, Thevenin's, Norton's, and Maximum Power Transfer theorems</p> <p>Course Competency Status: Active</p> <p>Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022 (Fall)</p>	<p>Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL).</p> <p>*Criterion: 50% of students achieve >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall)</p> <p>Result Type: Criteria Not Met</p> <p>11.76% (08/16/2022)</p> <p>Total # of Students Assessed: 17</p> <p># of Students Meeting Criteria: 2</p> <p>Related Documents:</p> <p>EET Assessment Report 5-31-22.docx</p> <p>ELET131N Section 1 Assessment Fall 2021.docx</p> <p>ELET131N Section 1 Grades Fall 2021.xlsx</p> <p>ELET131N Section A Assessment Fall 2021.docx</p> <p>ELET131N Section A Grades Fall 2021.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (08/16/2022)</p>
	<p>Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL).</p> <p>*Criterion: Average of POL for all students >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall)</p> <p>Result Type: Criteria Not Met</p> <p>Average of POL for all students = 4.57 out of 10.00 (06/01/2022)</p> <p>Total # of Students Assessed: 17</p> <p>Related Documents:</p> <p>EET Assessment Report 5-31-22.docx</p> <p>ELET131N Section 1 Assessment Fall 2021.docx</p> <p>ELET131N Section 1 Grades Fall 2021.xlsx</p> <p>ELET131N Section A Assessment Fall 2021.docx</p> <p>ELET131N Section A Grades Fall 2021.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2022)</p>
		<p>Reporting Period: 2020-2021 (Fall)</p> <p>Result Type: Criteria Met</p> <p>Average of POL for all students = 7.92 out of 10.00 (06/01/2021)</p> <p>Total # of Students Assessed: 21</p> <p>Related Documents:</p> <p>Electrical Engineering Technology May 31 2021 Assessment Report.docx</p> <p>ELET Assessment Meeting Notes 011421.pdf</p> <p>ELET131N Grades Fall 2020.xlsx</p> <p>ELET131N-1_F2020_Assessment.docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2021)</p>
		<p>Reporting Period: 2019-2020 (Fall)</p> <p>Result Type: Criteria Met</p> <p>Average of POL for all students = 8.29 out of 10.00 (06/01/2020)</p> <p>Total # of Students Assessed: 15</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2020)</p>

Course Competencies	Assessment Methods	Results	Use of Results
		<p>Related Documents: ELET131N Grades Fall 2019.xlsx ELET131N_F2019_Assessment.docx</p> <hr/> <p>Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 7.33 out of 10.00 (06/01/2019) Total # of Students Assessed: 12 Related Documents: ELET131N Grades Fall 2018.xlsx ELET131N_F2018_Assessment.docx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Not Met Of the two sections of this course, all outcomes (POLs) were > 7.0 except for POL #4 which was 6.13 (Section 1) and 7.14 (Section A), and POL#3 which was 6.80 (Section A) and 7.26 (Section 1). The department desires all to be >7.0. Although both sections of the course were taught in a very similar way, both the lectures and labs were not in sync. The recommends the following going forward:</p> <ul style="list-style-type: none"> o That for both sections, the exams and labs will be modified to be in sync (give the same labs, etc). o That one of the earlier labs in POL#2 be replaced with a lab that will help POL #4. o The scores in POL #3 (6.80 & 7.26) are considering close enough to be an average of >=7.0 that no changed is recommended at this time. o That the follow-up course will review the topics again (starting S'18) which has already happened. (02/09/2018) <p>Notes: Implemented at stated. Related Documents: ELET Assessment Meeting Notes 020518.docx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Not Met After the 2/5/18 review, several items were found and implemented. See Notes. (02/09/2018) Related Documents: ELET Assessment Meeting Notes 020518.docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/01/2019)</p>
			<p>Use of Results: The Department reviewed the course and found several items that could be improved. The details can be found in the notes. (02/09/2018) Follow-Up: As Stated in the notes. (02/09/2018)</p>

Course Competencies	Assessment Methods	Results	Use of Results
		<p>Reporting Period: 2017 - 2018</p> <p>Result Type: Criteria Met</p> <p>Average of POL for all students = 7.33 out of 10.00 (02/05/2018)</p> <p>Total # of Students Assessed: 28</p> <p>Related Documents:</p> <p>ELET Assessment Meeting Notes 020518.docx</p> <p>ELET131N - 1 F2017 Exam Grades Evals wksheet.xlsx</p> <p>ELET131N -A F2017 Exam Grades Evals wksheet-2.xlsx</p> <p>ELET131N-1_F2017_Assessment.docx</p> <p>ELET131N-A_F2017_Assessment -2 (1).docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (02/05/2018)</p>