Circuit Analysis I

08/23/2022

Program/Course Assessment - Electronic Engineering Technology (AS)

ELET131N:Circuit Analysis I

Course Competencies	Assessment Methods	Results	Use of Results
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
		Total # of Students Assessed: 15 **Related Documents:** [ELET131N Grades Fall 2019.xlsx](#) [ELET131N_F2019_Assessment.docx](#)	
		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](#)	**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 = 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](#)	**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% (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](#)	**Use of Results:** See "Related Documents" under Results for more information. (06/08/2022)
2. Ohm's Law and Kirchoff's Laws - Calculate voltages and currents using Ohm's law, Kirchho?'s voltage and current laws as well as voltage and	**Series of Assignments -** Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student	**Reporting Period:** 2021-2022 (Fall) **Result Type:** Criteria Met Average of POL for all students = 7.37 out of 10.00 (06/01/2022)	**Use of Results:** See "Related Documents" under Results for more information. (06/01/2022)

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	
		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. (06/01/2021)
		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. (06/01/2020)
		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. (06/01/2019)
		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	**Use of Results:** See "Related Documents" under Results for more information. (02/05/2018)

Course Competencies	Assessment Methods	Results	Use of Results
		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](#)	
	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)
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)	**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 Not Met Average of POL for all students = 6.85 out of 10.00 (06/01/2022) **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. (06/01/2022)
		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 **Related Documents:** [Electrical Engineering Technology May 31 2021 Assessment Report.docx](#) [ELET Assessment Meeting Notes 011421.pdf](#) [ELET131N Grades Fall 2020.xlsx](#)	**Use of Results:** See "Related Documents" under Results for more information. (06/01/2021)

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 wksheet.xlsx ELET131N -A F2017 Exam Grades Evals wksheet-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
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 **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:** 50% of students achieve >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Fall) **Result Type:** Criteria Not Met 11.76% (08/16/2022) **Total # of Students Assessed:** 17 **# of Students Meeting Criteria:** 2 **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. (08/16/2022)
	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 Not Met Average of POL for all students = 4.57 out of 10.00 (06/01/2022) **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. (06/01/2022)
		Reporting Period: 2020-2021 (Fall) **Result Type:** Criteria Met Average of POL for all students = 7.92 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 = 8.29 out of 10.00 (06/01/2020) **Total # of Students Assessed:** 15	**Use of Results:** See "Related Documents" under Results for more information. (06/01/2020)

Related Documents:

[ELET131N Grades Fall 2019.xlsx](#)

[ELET131N_F2019_Assessment.docx](#)

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](#)

Use of Results: See "Related Documents" under Results for more information. (06/01/2019)

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:

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)
Notes: Implemented at stated.
Related Documents:

[ELET Assessment Meeting Notes 020518.docx](#)

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](#)

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)

Course Competencies	Assessment Methods	Results	Use of Results

Reporting Period: 2017 - 2018
Result Type: Criteria Met
Average of POL for all students = 7.33 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-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)