

Electronics I

08/23/2022



ELET141N:Electronics I

| <i>Course Competencies</i> | <i>Assessment Methods</i> | <i>Results</i> | <i>Use of Results</i> |
|--|---|--|--|
| 1. Semiconductor Principles - Define semiconductor principles and construct DC load lines and operating points for diodes, bipolar junction transistors (BJT's) and Field Effect Transistors (FET's). Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring) | 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 \geq 7.0 out of 10.0 | Reporting Period: 2021-2022 (Spring) Result Type: Criteria Met Average of POL for all students = 7.13 out of 10.00 (05/31/2022) Total # of Students Assessed: 4 Related Documents: EET Assessment Report 5-31-22.docx ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx | Use of Results: See "Related Documents" under Results for more information. (05/31/2022) |
| | | Reporting Period: 2020-2021 (Spring) Result Type: Criteria Met Average of POL for all students = 8.21 out of 10.00 (05/31/2021) Total # of Students Assessed: 9 Related Documents: ELET141N Grades Spring 2021.xlsx ELET141N-1_S2021_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf | Use of Results: See "Related Documents" under Results for more information. (05/31/2021) |
| | | Reporting Period: 2019-2020 (Spring) Result Type: Criteria Met Average of POL for all students = 8.44 out of 10.00 (05/31/2020) Total # of Students Assessed: 12 Related Documents: | Use of Results: See "Related Documents" under Results for more information. (05/31/2020) |

| Course Competencies | Assessment Methods | Results | Use of Results |
|---|---|---|---|
| | | <p>ELET141N Grades Spring 2020.xlsx ELET141N-1_S2020_Assessment.docx</p> <hr/> <p>Reporting Period: 2018 - 2019 Result Type: Criteria Not Met Average of POL for all students = 6.82 out of 10.00 (05/31/2019) Total # of Students Assessed: 5 Related Documents: ELET141N Grades Spring 2019.xlsx ELET141N-1_S2019_Assessment.docx ELET141N-A_S2019_Assessment.docx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Not Met Average of POL for all students = 6.93 out of 10.00 (05/14/2018) Total # of Students Assessed: 9 Notes: more practice on load lines. Related Documents: ELET141N-1 Grades Spring18.xlsx ELET141N-1_S2018_Assessment.docx ELET141N-A Grades Spring18.xlsx ELET141N-A_S2018_Assessment.docx ELET Assessment Meeting Notes 051418.docx</p> <hr/> <p>Reporting Period: 2021-2022 (Spring) Result Type: Criteria Met 50.00% (05/31/2022) Total # of Students Assessed: 4 # of Students Meeting Criteria: 2 Related Documents: ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx EET Assessment Report 5-31-22.docx</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2019)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. More practice on Load lines going forward (05/14/2018)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |
| <p>2. Half-wave and Full-wave rectifiers - Identify and analyze half-wave and full-wave rectifier circuits as well as clippers, clampers, peak detectors and voltage multipliers. Course Competency Status: Active</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 (Spring) Result Type: Criteria Not Met Average of POL for all students = 4.93 out of 10.00 (05/31/2022) Total # of Students Assessed: 4 Related Documents:</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |

| <i>Course Competencies</i> | <i>Assessment Methods</i> | <i>Results</i> | <i>Use of Results</i> |
|---|--|--|-----------------------|
| Assessment Cycles: 2017 - 2018 (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring) | *Criterion: Average of POL for all students ≥ 7.0 out of 10.0 | EET Assessment Report 5-31-22.docx ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx | |

Total # of Students Assessed: 9

Related Documents:

[ELET141N Grades Spring 2021.xlsx](#)

[ELET141N-1_S2021_Assessment.docx](#)

| 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>ELET141N-1_S2018_Assessment.docx ELET141N-A Grades Spring18.xlsx ELET141N-A_S2018_Assessment.docx Reporting Period: 2021-2022 (Spring) Result Type: Criteria Not Met 25.00% (05/31/2022) Total # of Students Assessed: 4 # of Students Meeting Criteria: 1 Related Documents: ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx EET Assessment Report 5-31-22.docx</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |
| <p>3. BJT and FET Devices - Discuss the operation of the BJT and the FET including biasing them in various configurations and identifying saturation and cut-off points for a given bias. Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring)</p> | <p>*Criterion: Average of POL for all students >= 7.0 out of 10.0</p> | <p>Reporting Period: 2021-2022 (Spring) Result Type: Criteria Not Met Average of POL for all students = 6.65 out of 10.00 (05/31/2022) Total # of Students Assessed: 4 Related Documents: EET Assessment Report 5-31-22.docx ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |
| | | <p>Total # of Students Assessed: 9 Related Documents: ELET141N Grades Spring 2021.xlsx ELET141N-1_S2021_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2021)</p> |

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|--|--|--|---|
| | | <p>ELET141N Grades Spring 2020.xlsx ELET141N-1_S2020_Assessment.docx</p> <hr/> <p>Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 8.12 out of 10.00 (05/31/2019) Total # of Students Assessed: 5 Related Documents: ELET141N Grades Spring 2019.xlsx ELET141N-1_S2019_Assessment.docx ELET141N-A_S2019_Assessment.docx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 8.31 out of 10.00 (05/14/2018) Total # of Students Assessed: 9 Related Documents: ELET Assessment Meeting Notes 051418.docx ELET141N-1 Grades Spring18.xlsx ELET141N-1_S2018_Assessment.docx ELET141N-A Grades Spring18.xlsx ELET141N-A_S2018_Assessment.docx</p> <hr/> <p>Reporting Period: 2021-2022 (Spring) Result Type: Criteria Met 50.00% (05/31/2022) Total # of Students Assessed: 4 # of Students Meeting Criteria: 2 Related Documents: ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx EET Assessment Report 5-31-22.docx</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2019)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (05/14/2018)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |
| <p>4. BJT and FET Amplifiers - Design BJT and FET amplifier networks and use decibels and Bode Plots to understand their Frequency Response. Course Competency Status: Active Assessment Cycles: 2017 - 2018</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> <hr/> <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</p> | <p>Reporting Period: 2021-2022 (Spring) Result Type: Criteria Not Met Average of POL for all students = 5.83 out of 10.00 (05/31/2022) Total # of Students Assessed: 4 Related Documents: EET Assessment Report 5-31-22.docx</p> | <p>Use of Results: See "Related Documents" under Results for more information. (05/31/2022)</p> |

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|--|-----------------------------|---|--|
| (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring) | students >= 7.0 out of 10.0 | ELET141N Section 1 Assessment Spring 2022.docx ELET141N Section 1 Grades Spring 2022.xlsx <hr/> Reporting Period: 2020-2021 (Spring) Result Type: Criteria Not Met Average of POL for all students = 6.46 out of 10.00 (05/31/2021) Total # of Students Assessed: 9 Related Documents: ELET141N Grades Spring 2021.xlsx ELET141N-1_S2021_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf <hr/> Total # of Students Assessed: 12 Related Documents: ELET141N Grades Spring 2020.xlsx <hr/> | Use of Results: See "Related Documents" under Results for more information. (05/31/2021) |

Course Competencies