

# Electronics I

08/23/2022



## Program/Course Assessment - Electronic Engineering Technology (AS)

### ELET141N:Electronics I

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

Course Competencies	Assessment Methods	Results	Use of Results
		<p><a href="#">ELET141N Grades Spring 2020.xlsx</a>  <a href="#">ELET141N-1_S2020_Assessment.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2018 - 2019  <b>Result Type:</b> Criteria Not Met  Average of POL for all students = 6.82 out of 10.00 (05/31/2019)  <b>Total # of Students Assessed:</b> 5  <b>Related Documents:</b>  <a href="#">ELET141N Grades Spring 2019.xlsx</a>  <a href="#">ELET141N-1_S2019_Assessment.docx</a>  <a href="#">ELET141N-A_S2019_Assessment.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2017 - 2018  <b>Result Type:</b> Criteria Not Met  Average of POL for all students = 6.93 out of 10.00 (05/14/2018)  <b>Total # of Students Assessed:</b> 9  <b>Notes:</b> more practice on load lines.  <b>Related Documents:</b>  <a href="#">ELET141N-1 Grades Spring18.xlsx</a>  <a href="#">ELET141N-1_S2018_Assessment.docx</a>  <a href="#">ELET141N-A Grades Spring18.xlsx</a>  <a href="#">ELET141N-A_S2018_Assessment.docx</a>  <a href="#">ELET Assessment Meeting Notes 051418.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Met  50.00% (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b># of Students Meeting Criteria:</b> 2  <b>Related Documents:</b>  <a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a>  <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a>  <a href="#">EET Assessment Report 5-31-22.docx</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2019)</p> <hr/> <p><b>Use of Results:</b> See "Related Documents" under Results for more information. More practice on Load lines going forward (05/14/2018)</p> <hr/> <p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>
<p><b>2. Half-wave and Full-wave rectifiers</b>  - Identify and analyze half-wave and full-wave rectifier circuits as well as clippers, clampers, peak detectors and voltage multipliers.  <b>Course Competency Status:</b> Active</p>	<p><b>Series of Assignments</b> - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL).  <b>*Criterion:</b> 50% of students achieve &gt;= 7.0 out of 10.0</p>	<p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Not Met  Average of POL for all students = 4.93 out of 10.00 (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b>Related Documents:</b></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>

Course Competencies	Assessment Methods	Results	Use of Results
<b>Assessment Cycles:</b> 2017 - 2018 (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring)	<b>*Criterion:</b> Average of POL for all students >= 7.0 out of 10.0	<a href="#">EET Assessment Report 5-31-22.docx</a> <a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a> <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2021)
		<b>Reporting Period:</b> 2020-2021 (Spring) <b>Result Type:</b> Criteria Met Average of POL for all students = 7.78 out of 10.00 (05/31/2021)	
		<b>Total # of Students Assessed:</b> 9 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2021.xlsx</a> <a href="#">ELET141N-1_S2021_Assessment.docx</a> <a href="#">Electrical Engineering Technology May 31 2021 Assessment Report.docx</a> <a href="#">ELET Assessment Meeting Notes 011421.pdf</a>	
		<b>Reporting Period:</b> 2019-2020 (Spring) <b>Result Type:</b> Criteria Met Average of POL for all students = 7.41 out of 10.00 (05/31/2020)	
		<b>Total # of Students Assessed:</b> 12 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2020.xlsx</a> <a href="#">ELET141N-1_S2020_Assessment.docx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2020)
		<b>Reporting Period:</b> 2018 - 2019 <b>Result Type:</b> Criteria Met Average of POL for all students = 7.01 out of 10.00 (05/31/2019)	
		<b>Total # of Students Assessed:</b> 5 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2019.xlsx</a> <a href="#">ELET141N-1_S2019_Assessment.docx</a> <a href="#">ELET141N-A_S2019_Assessment.docx</a>	
		<b>Reporting Period:</b> 2017 - 2018 <b>Result Type:</b> Criteria Met Average of POL for all students = 7.21 out of 10.00 (05/14/2018)	
		<b>Total # of Students Assessed:</b> 9 <b>Related Documents:</b> <a href="#">ELET Assessment Meeting Notes 051418.docx</a> <a href="#">ELET141N-1 Grades Spring18.xlsx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/14/2018)

Course Competencies	Assessment Methods	Results	Use of Results
	<p><b>Series of Assignments</b> - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL).  <b>*Criterion:</b> 50% of students achieve &gt;= 7.0 out of 10.0</p>	<p><a href="#">ELET141N-1_S2018_Assessment.docx</a>  <a href="#">ELET141N-A_Grades_Spring18.xlsx</a>  <a href="#">ELET141N-A_S2018_Assessment.docx</a></p> <p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Not Met  25.00% (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b># of Students Meeting Criteria:</b> 1  <b>Related Documents:</b>  <a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a>  <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a>  <a href="#">EET Assessment Report 5-31-22.docx</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>
<p><b>3. BJT and FET Devices</b> - 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.  <b>Course Competency Status:</b> Active  <b>Assessment Cycles:</b> 2017 - 2018 (Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring)</p>	<p><b>Series of Assignments</b> - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student performance for this point of learning (POL).  <b>*Criterion:</b> Average of POL for all students &gt;= 7.0 out of 10.0</p>	<p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Not Met  Average of POL for all students = 6.65 out of 10.00 (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b>Related Documents:</b>  <a href="#">EET Assessment Report 5-31-22.docx</a>  <a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a>  <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>
		<p><b>Reporting Period:</b> 2020-2021 (Spring)  <b>Result Type:</b> Criteria Met  Average of POL for all students = 8.45 out of 10.00 (05/31/2021)  <b>Total # of Students Assessed:</b> 9  <b>Related Documents:</b>  <a href="#">ELET141N Grades Spring 2021.xlsx</a>  <a href="#">ELET141N-1_S2021_Assessment.docx</a>  <a href="#">Electrical Engineering Technology May 31 2021 Assessment Report.docx</a>  <a href="#">ELET Assessment Meeting Notes 011421.pdf</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2021)</p>
		<p><b>Reporting Period:</b> 2019-2020 (Spring)  <b>Result Type:</b> Criteria Met  Average of POL for all students = 8.77 out of 10.00 (05/31/2020)  <b>Total # of Students Assessed:</b> 12  <b>Related Documents:</b></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2020)</p>

Course Competencies	Assessment Methods	Results	Use of Results
		<p><a href="#">ELET141N Grades Spring 2020.xlsx</a>  <a href="#">ELET141N-1_S2020_Assessment.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2018 - 2019  <b>Result Type:</b> Criteria Met  Average of POL for all students = 8.12 out of 10.00 (05/31/2019)  <b>Total # of Students Assessed:</b> 5  <b>Related Documents:</b>  <a href="#">ELET141N Grades Spring 2019.xlsx</a>  <a href="#">ELET141N-1_S2019_Assessment.docx</a>  <a href="#">ELET141N-A_S2019_Assessment.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2017 - 2018  <b>Result Type:</b> Criteria Met  Average of POL for all students = 8.31 out of 10.00 (05/14/2018)  <b>Total # of Students Assessed:</b> 9  <b>Related Documents:</b>  <a href="#">ELET Assessment Meeting Notes 051418.docx</a>  <a href="#">ELET141N-1 Grades Spring18.xlsx</a>  <a href="#">ELET141N-1_S2018_Assessment.docx</a>  <a href="#">ELET141N-A Grades Spring18.xlsx</a>  <a href="#">ELET141N-A_S2018_Assessment.docx</a></p> <hr/> <p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Met  50.00% (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b># of Students Meeting Criteria:</b> 2  <b>Related Documents:</b>  <a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a>  <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a>  <a href="#">EET Assessment Report 5-31-22.docx</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2019)</p> <hr/> <p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/14/2018)</p> <hr/> <p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>
<p><b>4. BJT and FET Amplifiers - Design BJT and FET amplifier networks and use decibels and Bode Plots to understand their Frequency Response.</b>  <b>Course Competency Status:</b> Active  <b>Assessment Cycles:</b> 2017 - 2018</p>	<p><b>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).</b>  <b>*Criterion:</b> 50% of students achieve &gt;= 7.0 out of 10.0</p> <hr/> <p><b>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).</b>  <b>*Criterion:</b> Average of POL for all</p>	<p><b>Reporting Period:</b> 2021-2022 (Spring)  <b>Result Type:</b> Criteria Not Met  Average of POL for all students = 5.83 out of 10.00 (05/31/2022)  <b>Total # of Students Assessed:</b> 4  <b>Related Documents:</b>  <a href="#">EET Assessment Report 5-31-22.docx</a></p>	<p><b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2022)</p>

Course Competencies	Assessment Methods	Results	Use of Results
(Spring), 2018 - 2019 (Spring), 2019 - 2020 (Spring), 2020 - 2021 (Spring), 2021-2022 (Spring)	students >= 7.0 out of 10.0	<a href="#">ELET141N Section 1 Assessment Spring 2022.docx</a> <a href="#">ELET141N Section 1 Grades Spring 2022.xlsx</a> <hr/> <b>Reporting Period:</b> 2020-2021 (Spring) <b>Result Type:</b> Criteria Not Met Average of POL for all students = 6.46 out of 10.00 (05/31/2021) <b>Total # of Students Assessed:</b> 9 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2021.xlsx</a> <a href="#">ELET141N-1_S2021_Assessment.docx</a> <a href="#">Electrical Engineering Technology May 31 2021 Assessment Report.docx</a> <a href="#">ELET Assessment Meeting Notes 011421.pdf</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2021)
		<b>Reporting Period:</b> 2019-2020 (Spring) <b>Result Type:</b> Criteria Met Average of POL for all students = 7.02 out of 10.00 (05/31/2020) <b>Total # of Students Assessed:</b> 12 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2020.xlsx</a> <a href="#">ELET141N-1_S2020_Assessment.docx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2020)
		<b>Reporting Period:</b> 2018 - 2019 <b>Result Type:</b> Criteria Met Average of POL for all students = 7.81 out of 10.00 (05/31/2019) <b>Total # of Students Assessed:</b> 5 <b>Related Documents:</b> <a href="#">ELET141N Grades Spring 2019.xlsx</a> <a href="#">ELET141N-1_S2019_Assessment.docx</a> <a href="#">ELET141N-A_S2019_Assessment.docx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. (05/31/2019)
		<b>Reporting Period:</b> 2017 - 2018 <b>Result Type:</b> Criteria Met Average of POL for all students = 8.00 out of 10.00 (05/14/2018) <b>Total # of Students Assessed:</b> 9 <b>Related Documents:</b> <a href="#">ELET Assessment Meeting Notes 051418.docx</a> <a href="#">ELET141N-1 Grades Spring18.xlsx</a> <a href="#">ELET141N-1_S2018_Assessment.docx</a>	<b>Use of Results:</b> See "Related Documents" under Results for more information. Will remove decibels and Bode Plots which will be now covered in ELET241. (05/14/2018) <b>Follow-Up:</b> Verify that Decibals and Bode Plots are now covered in ELET241 (08/10/2018)

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