

Microcontrollers

08/23/2022



Program/Course Assessment - Electronic Engineering Technology (AS)

ELET250N:Microcontrollers

<i>Course Competencies</i>	<i>Assessment Methods</i>	<i>Results</i>	<i>Use of Results</i>
1. Intel Embedded Microcontrollers - Analyze the Hardware and Software Architectures of the Intel Family of Embedded Microprocessors. Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022 (Fall)	Series of Assignments - Homeworks, Exams, and Labs are used to determine the overall grade. *Criterion: 70% of students achieve >= 7.0 out of 10.0	Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met 79% (05/25/2022) Total # of Students Assessed: 14 # of Students Meeting Criteria: 11 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx	Use of Results: See "Related Documents" under Results for more information. (06/08/2022)
	Series of Assignments - Homeworks, Exams, and Labs are used to determine the overall grade. *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 = 8.05 out of 10.00 (05/26/2022) Total # of Students Assessed: 14 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx	Use of Results: See "Related Documents" under Results for more information. (05/26/2022)
		Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 8.81 out of 10.00 (12/17/2020) Total # of Students Assessed: 8 Related Documents: ELET250N-1_F2020_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment	Use of Results: See "Related Documents" under Results for more information. (12/17/2020)

Course Competencies	Assessment Methods	Results	Use of Results
		Report.docx ELET Assessment Meeting Notes 011421.pdf ELET250N Grades Fall 2020.xlsx	
		Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 8.33 out of 10.00 (12/23/2019) Total # of Students Assessed: 13 Related Documents: ELET250N-A_F2019_Assessment.docx Grades Fall 2019.xlsx	Use of Results: See "Related Documents" under Results for more information. (12/23/2019)
		Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 8.54 out of 10.00 (12/19/2018) Total # of Students Assessed: 10 Related Documents: ELET250N-A_F2018_Assessment.docx Grades Fall 2018.xlsx	Use of Results: See "Related Documents" under Results for more information. (12/19/2018)
		Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 8.03 out of 10.00 (02/06/2018) Total # of Students Assessed: 9 Related Documents: ELET250N-A_F2017_Assessment (2).docx ELET Assessment Meeting Notes 020518.docx ELET250N-Exam-Grades_Evals_Wksheet.xlsx	Use of Results: Will keep the using the Final Project instead of a Final Exam going forward. Both Professor's Poteat and Marcotte Agree on 12/12/2017. See "Related Documents" under Results for more information. (02/06/2018)
2. Assembly Language Fundamentals - Understand and interpret coding schemes, such as Assembly Language Fundamentals, including looping, calls, and procedures and the differences between Microcontrollers and Microprocessors Course Competency Status: Active Assessment Cycles: 2017 - 2018 (Fall), 2018 - 2019 (Fall), 2019 - 2020 (Fall), 2020 - 2021 (Fall), 2021-2022	Series of Assignments - Homeworks, Exams, and Labs are used to determine the overall grade. *Criterion: 70% of students achieve >= 7.0 out of 10.0 Series of Assignments - Homeworks,	Reporting Period: 2021-2022 (Fall) Result Type: Criteria Not Met 57% (05/25/2022) Total # of Students Assessed: 14 # of Students Meeting Criteria: 8 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx Reporting Period: 2021-2022 (Fall)	Use of Results: See "Related Documents" under Results for more information. (06/08/2022) Use of Results: See "Related

Course Competencies	Assessment Methods	Results	Use of Results
(Fall)	Exams, and Labs are used to determine the overall grade. *Criterion: Average of POL for all students >= 7.0 out of 10.0	Result Type: Criteria Met Average of POL for all students = 7.66 out of 10.00 (05/26/2022) Total # of Students Assessed: 14 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx	Documents" under Results for more information. (05/26/2022)
		Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 8.78 out of 10.00 (12/17/2020) Total # of Students Assessed: 8 Related Documents: ELET250N-1_F2020_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET250N Grades Fall 2020.xlsx	Use of Results: See "Related Documents" under Results for more information. (12/17/2020)
		Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 8.54 out of 10.00 (12/23/2019) Total # of Students Assessed: 13 Related Documents: ELET250N-A_F2019_Assessment.docx Grades Fall 2019.xlsx	Use of Results: See "Related Documents" under Results for more information. (12/23/2019)
		Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 8.74 out of 10.00 (12/19/2018) Total # of Students Assessed: 10 Related Documents: ELET250N-A_F2018_Assessment.docx Grades Fall 2018.xlsx	Use of Results: See "Related Documents" under Results for more information. (12/19/2018)
		Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 7.66 out of 10.00 (02/06/2018)	Use of Results: Will keep the using the Final Project instead of a Final Exam going forward. Both Professor's Poteat and Marcotte

Course Competencies	Assessment Methods	Results	Use of Results
		<p>Total # of Students Assessed: 9 Related Documents: ELET Assessment Meeting Notes 020518.docx ELET250N-A_F2017_Assessment (2).docx ELET250N-Exam-Grades_Evals_Wksheet.xlsx</p>	<p>Agree on 12/12/2017. See "Related Documents" under Results for more information. (02/06/2018)</p>
<p>3. 8051 Registers, Timers, Counters, Memory and GPIO - Interface the on-board ROM, RAM, registers, timers, counters, serial port, and general purpose I/O to digital, analog, and time-varying input and output signals 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 - Homeworks, Exams, and Labs are used to determine the overall grade. *Criterion: 70% of students achieve >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met 79% (05/25/2022) Total # of Students Assessed: 14 # of Students Meeting Criteria: 11 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/08/2022)</p>
	<p>Series of Assignments - Homeworks, Exams, and Labs are used to determine the overall grade. *Criterion: Average of POL for all students >= 7.0 out of 10.0</p>	<p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met Average of POL for all students = 7.73 out of 10.00 (05/26/2022) Total # of Students Assessed: 14 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (05/26/2022)</p>
		<p>Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 8.39 out of 10.00 (12/17/2020) Total # of Students Assessed: 8 Related Documents: ELET250N-1_F2020_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET250N Grades Fall 2020.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/17/2020)</p>
		<p>Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 7.55 out of 10.00</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/23/2019)</p>

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		<p>(12/23/2019) Total # of Students Assessed: 13 Related Documents: ELET250N-A_F2019_Assessment.docx Grades Fall 2019.xlsx</p> <hr/> <p>Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 7.61 out of 10.00 (12/19/2018) Total # of Students Assessed: 10 Related Documents: ELET250N-A_F2018_Assessment.docx Grades Fall 2018.xlsx</p> <hr/> <p>Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 7.8 out of 10.00 (02/06/2018) Total # of Students Assessed: 9 Related Documents: ELET Assessment Meeting Notes 020518.docx ELET250N-A_F2017_Assessment (2).docx ELET250N-Exam-Grades_Evals_Wksheet.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/19/2018)</p> <hr/> <p>Use of Results: Will keep the using the Final Project instead of a Final Exam going forward. Both Professor's Poteat and Marcotte Agree on 12/12/2017. See "Related Documents" under Results for more information. (02/06/2018)</p>
<p>4. Microcontroller Applications - Apply Microcontroller principles to real world situations. This includes develop real-time assembly language programs using linear, polling, handshaking, and interrupt techniques. 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 - Homeworks, Exams, and Labs are used to determine the overall grade. *Criterion: 70% of students achieve >= 7.0 out of 10.0</p> <hr/> <p>Series of Assignments - Homeworks, Exams, and Labs are used to determine the overall grade. *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 57% (05/25/2022) Total # of Students Assessed: 14 # of Students Meeting Criteria: 8 Related Documents: ELET250N Assessment F2021.docx EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx</p> <hr/> <p>Reporting Period: 2021-2022 (Fall) Result Type: Criteria Met Average of POL for all students = 7.61 out of 10.00 (05/26/2022) Total # of Students Assessed: 14 Related Documents: ELET250N Assessment F2021.docx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (06/08/2022)</p> <hr/> <p>Use of Results: See "Related Documents" under Results for more information. (05/26/2022)</p>

Course Competencies	Assessment Methods	Results	Use of Results
		<p>EET Assessment Report 5-31-22.docx ELET250N Grades F2021.xlsx</p> <hr/> <p>Reporting Period: 2020-2021 (Fall) Result Type: Criteria Met Average of POL for all students = 8.97 out of 10.00 (12/17/2020) Total # of Students Assessed: 8 Related Documents: ELET250N-1_F2020_Assessment.docx Electrical Engineering Technology May 31 2021 Assessment Report.docx ELET Assessment Meeting Notes 011421.pdf ELET250N Grades Fall 2020.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/17/2020)</p>
		<p>Reporting Period: 2019-2020 (Fall) Result Type: Criteria Met Average of POL for all students = 8.45 out of 10.00 (12/23/2019) Total # of Students Assessed: 13 Related Documents: ELET250N-A_F2019_Assessment.docx Grades Fall 2019.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/23/2019)</p>
		<p>Reporting Period: 2018 - 2019 Result Type: Criteria Met Average of POL for all students = 7.92 out of 10.00 (12/19/2018) Total # of Students Assessed: 10 Related Documents: ELET250N-A_F2018_Assessment.docx Grades Fall 2018.xlsx</p>	<p>Use of Results: See "Related Documents" under Results for more information. (12/19/2018)</p>
		<p>Reporting Period: 2017 - 2018 Result Type: Criteria Met Average of POL for all students = 8.08 out of 10.00 (02/06/2018) Total # of Students Assessed: 9 Related Documents: ELET Assessment Meeting Notes 020518.docx ELET250N-A_F2017_Assessment (2).docx ELET250N-Exam-Grades_Evals_Wksheet.xlsx</p>	<p>Use of Results: Will keep the using the Final Project instead of a Final Exam going forward. Both Professor's Poteat and Marcotte Agree on 12/12/2017. See "Related Documents" under Results for more information. (02/06/2018)</p>