Advanced Digital Circuits

08/23/2022

Program/Course Assessment - Electronic Engineering Technology (AS)

ELET221N:Advanced Digital Circuits

Course Competencies	Assessment Methods	Results	Use of Results
1. Synchronous and Asynchronous Circuits - - Understand synchronous and asynchronous circuits by implementing various types of shift register (SR) circuits and using state machines and state diagrams to implement and apply circuits to real world applications **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 >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Met Average of POL for all students = 8.33 out of 10.00 (05/31/2022) **Total # of Students Assessed:** 3 **Related Documents:** [EET Assessment Report 5-31-22.docx](#) [ELET221N Assessment S2022.docx](#) [ELET221N Grades S2022.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 = 7.49 out of 10.00 (05/31/2021) **Total # of Students Assessed:** 9 **Related Documents:** [Electrical Engineering Technology May 31 2021 Assessment Report.docx](#) [ELET Assessment Meeting Notes 011421.pdf](#) [ELET221N-A_S2021_Assessment.docx](#) [Grades Spring 21 ELET221N Only Grades.xlsx](#)	**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 = 8.39 out of 10.00 (05/31/2020) **Total # of Students Assessed:** 9 **Related Documents:**	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2020)

Course Competencies	Assessment Methods	Results	Use of Results

ELET221N Grades Spring 2020 050620.xlsx

ELET221N-A_S2020_Assessment.docx

		Reporting Period: 2018 - 2019 **Result Type:** Criteria Met Average of POL for all students = 7.92 out of 10.00 (05/31/2019) **Total # of Students Assessed:** 9 **Related Documents:** ELET221N-A_S2019_Assessment.pdf Grades Spring 19 ELET221N Grades Etc.xlsx	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2019)
		Reporting Period: 2017 - 2018 **Result Type:** Criteria Met Average of POL for all students = 8.58 out of 10.00 (08/10/2018) **Total # of Students Assessed:** 10 **Related Documents:** ELET Assessment Meeting Notes 051418.docx ELET221N-A Grades Spring18.xlsx ELET221N-A_S2018_Assessment.docx	**Use of Results:** See "Related Documents" under Results for more information. (08/10/2018)
	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:** 70% of students achieve >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Met 100.00% (06/07/2022) **Total # of Students Assessed:** 3 **# of Students Meeting Criteria:** 3 **Related Documents:** ELET221N Grades S2022.xlsx ELET221N Assessment S2022.docx EET Assessment Report 5-31-22.docx	**Use of Results:** See "Related Documents" under Results for more information. (06/08/2022)
2. Computer Memory - Understand memory basics including the various types of memory devices such as RAM, ROM, Flash, etc. **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 >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Not Met Average of POL for all students = 6.43 out of 10.00 (05/31/2022) **Total # of Students Assessed:** 3 **Related Documents:** EET Assessment Report 5-31-22.docx ELET221N Assessment S2022.docx ELET221N Grades S2022.xlsx	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2022)
		Reporting Period: 2020-2021 (Spring)	**Use of Results:** See "Related

Course Competencies	Assessment Methods	Results	Use of Results
		Result Type: Criteria Not Met Average of POL for all students = 6.62 out of 10.00 (05/31/2021) **Total # of Students Assessed:** 9 **Related Documents:** [Electrical Engineering Technology May 31 2021 Assessment Report.docx](#) [ELET Assessment Meeting Notes 011421.pdf](#) [ELET221N-A_S2021_Assessment.docx](#) [Grades Spring 21 ELET221N Only Grades.xlsx](#)	Documents" under Results for more information. (05/31/2021)
		Reporting Period: 2019-2020 (Spring) **Result Type:** Criteria Not Met Average of POL for all students = 6.53 out of 10.00 (05/31/2020) **Total # of Students Assessed:** 9 **Related Documents:** [ELET221N Grades Spring 2020 050620.xlsx](#) [ELET221N-A_S2020_Assessment.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2020)
		Reporting Period: 2018 - 2019 **Result Type:** Criteria Not Met Average of POL for all students = 6.74 out of 10.00 (05/31/2019) **Total # of Students Assessed:** 9 **Related Documents:** [ELET221N-A_S2019_Assessment.pdf](#) [Grades Spring 19 ELET221N Grades Etc.xlsx](#)	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2019)
		Reporting Period: 2017 - 2018 **Result Type:** Criteria Met Average of POL for all students = 7.69 out of 10.00 (08/10/2018) **Total # of Students Assessed:** 10 **Related Documents:** [ELET Assessment Meeting Notes 051418.docx](#) [ELET221N-A Grades Spring18.xlsx](#) [ELET221N-A_S2018_Assessment.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (08/10/2018)
	Series of Assignments - Exam(s), in addition to Laboratory Assignment(s) and Homework Assignment(s) contribute to assessing student	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Not Met 33.33% (06/07/2022) **Total # of Students Assessed:** 3	**Use of Results:** See "Related Documents" under Results for more information. (06/08/2022)

Course Competencies	Assessment Methods	Results	Use of Results
	performance for this point of learning (POL) ***Criterion:** 70% of students achieve >= 7.0 out of 10.0	**# of Students Meeting Criteria:** 1 **Related Documents:** [ELET221N Grades S2022.xlsx](#) [ELET221N Assessment S2022.docx](#) [EET Assessment Report 5-31-22.docx](#)	
3. Complex Programmable Logic Devices - Be able to design basic programmable devices such as CPLD's and FPGAs in a real world application. **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 >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Met Average of POL for all students = 8.45 out of 10.00 (05/31/2022) **Total # of Students Assessed:** 3 **Related Documents:** [EET Assessment Report 5-31-22.docx](#) [ELET221N Assessment S2022.docx](#) [ELET221N Grades S2022.xlsx](#)	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2022)
		Reporting Period: 2020-2021 (Spring) **Result Type:** Criteria Not Met Average of POL for all students = 6.89 out of 10.00 (05/31/2021) **Total # of Students Assessed:** 9 **Related Documents:** [Electrical Engineering Technology May 31 2021 Assessment Report.docx](#) [ELET Assessment Meeting Notes 011421.pdf](#) [ELET221N-A_S2021_Assessment.docx](#) [Grades Spring 21 ELET221N Only Grades.xlsx](#)	**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 = 7.16 out of 10.00 (05/31/2020) **Total # of Students Assessed:** 9 **Related Documents:** [ELET221N Grades Spring 2020 050620.xlsx](#) [ELET221N-A_S2020_Assessment.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2020)
		Reporting Period: 2018 - 2019 **Result Type:** Criteria Met Average of POL for all students = 8.05 out of 10.00 (05/31/2019) **Total # of Students Assessed:** 9	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2019)

Course Competencies	Assessment Methods	Results	Use of Results

Related Documents:
[ELET221N-A_S2019_Assessment.pdf](#)
[Grades Spring 19 ELET221N Grades Etc.xlsx](#)

		Reporting Period: 2017 - 2018 **Result Type:** Criteria Met Average of POL for all students = 8.38 out of 10.00 (08/10/2018) **Total # of Students Assessed:** 10 **Related Documents:** [ELET Assessment Meeting Notes 051418.docx](#) [ELET221N-A Grades Spring18.xlsx](#) [ELET221N-A_S2018_Assessment.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (08/10/2018)
	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:** 70% of students achieve >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Not Met 66.66% (06/07/2022) **Total # of Students Assessed:** 3 **# of Students Meeting Criteria:** 2 **Related Documents:** [ELET221N Grades S2022.xlsx](#) [ELET221N Assessment S2022.docx](#) [EET Assessment Report 5-31-22.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (06/08/2022)
4. Computer Bus Architecture - Be able to discuss the computer bus basics including the different types (parallel, serial, USB, etc). **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 >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Met Average of POL for all students = 7.59 out of 10.00 (05/31/2022) **Total # of Students Assessed:** 3 **Related Documents:** [EET Assessment Report 5-31-22.docx](#) [ELET221N Assessment S2022.docx](#) [ELET221N Grades S2022.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 = 7.56 out of 10.00 (05/31/2021) **Total # of Students Assessed:** 9 **Related Documents:** [Electrical Engineering Technology May 31 2021 Assessment Report.docx](#)	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2021)

Course Competencies	Assessment Methods	Results	Use of Results
		ELET Assessment Meeting Notes 011421.pdf	
		ELET221N-A_S2021_Assessment.docx	
		Grades Spring 21 ELET221N Only Grades.xlsx	
		Reporting Period: 2019-2020 (Spring) **Result Type:** Criteria Met Average of POL for all students = 8.74 out of 10.00 (05/31/2020) **Total # of Students Assessed:** 9 **Related Documents:** ELET221N Grades Spring 2020 050620.xlsx ELET221N-A_S2020_Assessment.docx	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2020)
		Reporting Period: 2018 - 2019 **Result Type:** Criteria Met Average of POL for all students = 7.74 out of 10.00 (05/31/2019) **Total # of Students Assessed:** 9 **Related Documents:** ELET221N-A_S2019_Assessment.pdf Grades Spring 19 ELET221N Grades Etc.xlsx	**Use of Results:** See "Related Documents" under Results for more information. (05/31/2019)
		Reporting Period: 2017 - 2018 **Result Type:** Criteria Met Average of POL for all students = 8.83 out of 10.00 (08/10/2018) **Total # of Students Assessed:** 10 **Related Documents:** ELET Assessment Meeting Notes 051418.docx ELET221N-A Grades Spring18.xlsx ELET221N-A_S2018_Assessment.docx	**Use of Results:** See "Related Documents" under Results for more information. (08/10/2018)
	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:** 70% of students achieve >= 7.0 out of 10.0	**Reporting Period:** 2021-2022 (Spring) **Result Type:** Criteria Met 100.00% (06/07/2022) **Total # of Students Assessed:** 3 **# of Students Meeting Criteria:** 3 **Related Documents:** ELET221N Grades S2022.xlsx ELET221N Assessment S2022.docx EET Assessment Report 5-31-22.docx	**Use of Results:** See "Related Documents" under Results for more information. (06/08/2022)