COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Numl	ber and Title EG 230 Residential Wiring									
Credit Hours	4									
Course Description	This course provides instruction in the knowledge Code will be used to specify requirements to the course, students should be able to determine the course of the course o	install wiring	g devices such as control panels, brea	ker systems, and current devic	es. Upon completion of					
Prerequisite(sand/or Corequisite(s										
Required Text	books/References/Course Materials:									
Electrical Wiring Residential - With Plans and MindTap			Phil Simmons, Ray C. Mullin	Cengage Learning	1337577340					
General	Education Outcomes		<u> </u>	·						
	written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language language, and information technology).									
2 Identify a	entify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).									

Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).

	Program/Department Outcomes
1	Prepare students to become safe and competent electrical technicians
2	Provide opportunities to display critical thinking skills
3	Demonstrate responsible professional conduct and behavior.
4	Effectively communicate.
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4 Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/ Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Comprehend the organization of the NEC and the updating process; basic safety rules for working electrical systems	C-Understanding (2)	1, 2, 4	1	1	1	2	1	0
2	Comprehend project requirements, building plans, specifications, and electrical installation requirements	C-Understanding (2)	1, 2, 4	1	1	1	2	1	0
3	Compute loads, number of branch circuit requirements	C-Applying (3)	1, 2, 4	1	1	1	1	2	0
4	Describe switch, receptacle raceway, cable requirements, branch circuits, feeder, conductor size, overcurrent protective device ratings	C-Evaluating (5)	1, 2, 4	1	1	1	1	1	0
5	Compute feeder loading, voltage drop, short circuit fault currents	C-Applying (3)	1, 2, 4	1	1	1	1	2	0
6	Explain installation of panel boards, service equipment, grounding	C-Creating (6)	1, 2, 4	1	1	1	1	1	0
7	Identify transformer connection diagrams, types, classes, and ratings of fuses, and circuit breakers	C-Remembering (1)	1, 2, 4	1	1	1	2	1	0
8									
9									
10				0 151					

Bloom's Domain Legend
C = Cognitive
A = Affective

P = Psychomotor

General Education Outcome Legend
2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable

0 = Not included

May 2021 Approved:

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