COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Numb	per and Title EG 214 Electronic Control System	S									
Credit Hours	4										
Course Description	, , , , , , , , , , , , , , , , , , ,										
Prerequisite(s and/or Corequisite(s) MT 124 or higher										
Required Textbooks/References/Course Materials: Industrial Motor Control		7th	Herman	Delmar Publishers	1133691803						
1 Utilize wr	Education Outcomes itten and verbal language to discuss and comprehaguage, and information technology).	nend infor	mation, incorporating a v	rariety of technologies, such as text, data, and	images (written language,						
	entify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).										
etc., as a	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, tc., 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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	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	Describe the purpose and general principles of motors, starters, the various components of motor starters, control equipment, control transformers, various sensor switches and relays	C-Remembering (1)	1, 2, 4	1	1	1	2	1	0
2	Compare and Contrast various symbols, Interpret and develop schematic diagrams, wiring diagrams, ladder logic	C-Analyzing (4)	1, 2, 4	1	1	1	2	1	0
3	Compare and contrast the use of various motor controls for jagging, inching, reverse, forward, manual and automatic operation, and starting motors in a predetermined sequence	C-Analyzing (4)	1, 2, 4	1	1	1	2	1	0
4	Describe the application and characteristics of DC motors	C-Remembering (1)	1, 2, 4	1	1	1	2	1	0
5	Compare and contrast the operation of and wiring methods of three-phase motors	C-Analyzing (4)	1, 2, 4	1	1	1	2	1	0
6	Compute starting current for wye and delta connected motors, conductor size for motor installations, short circuit protection, starter size	C-Applying (3)	1, 2, 4	1	1	1	1	2	0
7									
8									
9									
10		Plaam's Damain Lagand		Canaral Educ					

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 November 11, 2021 Approved: Reviewed: