

Universitas Negeri Surabaya Faculty of Engineering, Electrical Engineering Undergraduate Study Program

Document Code

			SE	MESTE	RLE	ARN	ING	PL/	۹N					
Courses			CODE		Course I	e Family		Credit Weight		SEME	ESTER	Compilation Date		
Electroni	ic Co	ntrol Systems	20201031	99				T=3	P=0 EC	CTS=4.77	í	6	July 18, 2024	
AUTHOR	RIZAT	ION	SP Devel	oper	1		Course	Clust	er Coord	linator	Study Coore	y Progra dinator	am	
							·····			Dr. Lusia Rakhmawati, S.T., M.T.				
Learning model	I	Project Based L	earning											
		PLO study program that is charged to the course												
Outcom		Program Objec	tives (PO)											
(PLO)		PLO-PO Matrix												
Electronic Control Systems 2020103199 AUTHORIZATION SP Developer Co Learning model Project Based Learning														
		PO Matrix at the	e end of each	learning sta	ge (Sub-F	°O)								
				2 3 4	4 5	6 7	1 1	Week 9 í	10 11	12	13	14 2	15 16	
Course	tion	Students are able	e to understand p	problems in dig	gital systen	ns and th	neir imple	ementa	ition.					
Referen	ces	Main :												
		Mada S		Ph.D.,panc	duan pra	aktis m	embua	t rob	ot cerd	as men	gguna	akan a	arduino dan	
		Supporters:												
		Arif Widodo, S.T.	, M.Sc.	M.Pd.										
Week-	eac stag	h learning ge			Form	04	Learn Studen [Es	it Assi timate	ethods, gnments d time]		mate Refer	rning erials [rences	Assessment Weight (%)	
	(Ou		indicator	Criteria &	-orm				nline (<i>oi</i>	iiine)		1		
(1)		(2)	(3)	(4)		(!	5)		(6)		((7)	(8)	

1	Have the ability to describe the development of analog control systems and digital control systems	understand cognitively the classification of control systems	Criteria: 1.Assessment Criteria Very good performance = 91-100 2.Good presentation = 81-90 3.Fairly good = 71 - 80	Paper assignments, discussions and presentations 3 X 50		0%
2	has the ability to describe electronic control systems, both analog control systems and digital control systems	Have the ability to explain the topic/title of the selected analog control system and digital control system	Criteria: 1.Assessment Criteria Very good performance = 91-100 2.Good presentation = 81-90 3.Fairly good = 71 - 80	giving paper assignments, presentations and discussions 3 X 50		0%
3	has the ability to describe electronic control systems, both analog control systems and digital control systems	Have the ability to explain the topic/title of the selected analog control system and digital control system	Criteria: 1.Assessment Criteria Very good performance = 91-100 2.Good presentation = 81-90 3.Fairly good = 71 - 80	giving paper assignments, presentations and discussions 3 X 50		0%
4	has the ability to describe electronic control systems, both analog control systems and digital control systems	Have the ability to explain the topic/title of the selected analog control system and digital control system	Criteria: 1.Assessment Criteria Very good performance = 91-100 2.Good presentation = 81-90 3.Fairly good = 71 - 80	giving paper assignments, presentations and discussions 3 X 50		0%
5	has the ability to describe electronic control systems, both analog control systems and digital control systems	Have the ability to explain the topic/title of the selected analog control system and digital control system	Criteria: 1.Assessment Criteria Very good performance = 91-100 2.Good presentation = 81-90 3.Fairly good = 71 - 80	giving paper assignments, presentations and discussions 3 X 50		0%
6	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%

7	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%
8	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%
9	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%
10	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%
11	Have competence in describing and creating a series of implementations of analog control systems and digital control systems	topics on analog control systems and digital control systems that can be implemented	Criteria: 1.Assessment Criteria: Excellent performance and series trial results = 91-100 2.Both presentation and test series results = 81-90 3.Quite good and series test results = 71 - 80	Tasks and implementation results for each topic of the 3 X 50 electronic control system circuit		0%

12	Have competence in evaluating a series of electronic control system implementations that have been designed, created, tested and analyzed	Understand how to evaluate analog and digital electronic control systems	Criteria: 1.Assessment Criteria Very good way of presenting data = 91-100 2.Good presentation of how to present data = 81-90 3.Fairly good way of presenting data = 71 - 80	Tasks and test results 3 X 50		0%
13	Have competence in evaluating a series of electronic control system implementations that have been designed, created, tested and analyzed	Understand how to evaluate analog and digital electronic control systems	Criteria: 1.Assessment Criteria Very good way of presenting data = 91-100 2.Good presentation of how to present data = 81-90 3.Fairly good way of presenting data = 71 - 80	Tasks and test results 3 X 50		0%
14	Have competence in evaluating a series of electronic control system implementations that have been designed, created, tested and analyzed	Understand how to evaluate analog and digital electronic control systems	Criteria: 1.Assessment Criteria Very good way of presenting data = 91-100 2.Good presentation of how to present data = 81-90 3.Fairly good way of presenting data = 71 - 80	Tasks and test results 3 X 50		0%
15	Have competence in evaluating a series of electronic control system implementations that have been designed, created, tested and analyzed	Understand how to evaluate analog and digital electronic control systems	Criteria: 1.Assessment Criteria Very good way of presenting data = 91-100 2.Good presentation of how to present data = 81-90 3.Fairly good way of presenting data = 71 - 80	Tasks and test results 3 X 50		0%
16						0%

Evaluation Percentage Recap: Project Based Learning No Evaluation Percentage

No Evaluation Percentage 0%

Notes

- 1. Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.

- Forms of assessment: test and non-test. 7.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning. 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning,
- Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main
- 10. Learning indentity are details of decomptone of each state indentity indentity indentity in the properties of the set o
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.