

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

Document Code

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Courses				CODE		Cou	rse Far	nily	Cred	dit We	ight	SEMESTER	Compilation Date
Electric I Practicur		Control Syste	m	202010	1361				T=1	P=0	ECTS=1.59	5	July 17, 2024
AUTHOR	IZAT	ION		SP Dev	eloper			Cours	e Clus	ter Co	oordinator	Study Progra Coordinator	
													Rakhmawati, , M.T.
Learning model		Project Based	d Lea	arning									
Program Learning					ch is charged	to t	ne cou	rse					
Outcom (PLO)	es	Program Ob		ves (PO	)								
,		PLO-PO Mat	rıx										
				P.C	)								
			<u> </u>										
		PO Matrix at	the	end of e	ach learning	stag	je (Sub	p-PO)					
				P.O					We	eek			
				1	2 3	4 !	5 6	7 8	3 9	10	11 12	13 14	15 16
Short Course Descript	tion	Provides prac discussed incl synchronous r	ludes	dc moto	or dynamics, d	moto lc mo	or drive tor sett	s and n ings, inc	notor ( luction	drive ( moto	control syster r dynamics, i	ns work. The nduction moto	main material r settings, and
Referen	ces	Main :											
		System 2. DUBE	ms, a	and Autor opal K.19	CMotor and I nation Society. 89.Power Sem dam.1996.Elec	nicond	uctor C	ontrolled	l Drive	s, Pre	ntice Hall, Inc.		strumentation,
		Supporters:											
Support lecturer	ing	Endryansyah,	S.T.,	M.T.									
Week-	of e	al abilities each rning stage		Ev	aluation			Lear Stude	elp Lea ning n nt Ass stimat	netho signm	ds, ents,	Learning materials [ References	Assessment Weight (%)
	(Su	b-PO)	In	dicator	Criteria & F	orm		line ( line )	C	nline	( online )	1	
(1)		(2)		(3)	(4)		(	(5)			(6)	(7)	(8)

1	Students are able to practically understand the parts of a DC motor, how a DC motor works, types of DC motors and DC motor applications	- Mention the parts of a DC motor - Be able to explain how a DC motor works - Know the application of DC motors in the process industry	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50			0%
2	Students are able to practically understand the parts of a DC motor, how a DC motor works, types of DC motors and DC motor applications	- Mention the parts of a DC motor - Be able to explain how a DC motor works - Know the application of DC motors in the process industry	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50			0%
3	Students are able to practically understand the parts of a DC motor, how a DC motor works, types of DC motors and DC motor applications	- Mention the parts of a DC motor - Be able to explain how a DC motor works - Know the application of DC motors in the process industry	Criteria:	Presentations, group discussions, case studies and reflections 2 X 50			0%
4	Students are able to practically understand the parts of a DC motor, how a DC motor works, types of DC motors and DC motor applications	- Mention the parts of a DC motor - Be able to explain how a DC motor works - Know the application of DC motors in the process industry	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50			0%
5	Students are able to practically understand the parts of a DC motor, how a DC motor works, types of DC motors and DC motor applications	- Mention the parts of a DC motor - Be able to explain how a DC motor works - Know the application of DC motors in the process industry	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50			0%
6							0%
7							0%
8							0%
9							0%
10							0%
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11				0%
12				0%
13				0%
14				0%
15				0%
16				0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
		0%

## Notes

- 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.
- Indicators for assessing abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.
- 7. Forms of assessment: test and non-test.
- 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.
- 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 points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.