

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

Document Code

			SE	MESTE	RI	LEA	RN	ING	PL	AN			
Courses	;		CODE		Cou	rse Far	nily	Cre	dit We	ight	SEMESTER Compilati Date		
Distribut	Distributed Control Systems		ns 202010	2020102206				T=2	2 P=0	ECTS=3.18	7	July 17, 2024	
AUTHORIZATION			SP Dev	SP Developer			Cou	Course Cluster Coordinator			Study Program Coordinator		
												Rakhmawati, ., M.T.	
Learning model	J	Project Base	ed Learning										
Program Learning Outcome (PLO)		PLO study program which is charged to the course											
		Program Objectives (PO)											
		PLO-PO Ma	trix										
			P.0	D									
		PO Matrix at the end of each learning stage (Sub-PO)											
			P.O	P.O Week									
				2 3	4 5	5 6	7	8 9) 10	11 12	13 14	15 16	
Short Course Descrip	tion	Discusses th packages and	e basic conc d integration, i	epts of distrib use of fieldbuse	outed es, D0	control CS appl	syste icatior	ms, PL is in ind	C app ustry.	lications, SC. This course is	ADA in indust presented in t	ry, basic DCS heoretical form	
Referen	ces	Main :											
		2. MP L	ukae.1986.Di	916.The contro stributed Contr eers Handbook	ol Sys	stems T	hein E	Evaluatio	on &De				
		Supporters:											
Support lecturer		Endryansyah Dr. Puput Wa	, S.T., M.T. Inarti Rusimar	nto, S.T., M.T.									
Week-	of e	al abilities each rning stage	E١	Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]			Learning materials [References	Assessment Weight (%)		
	(Sub-PŎ)		Indicator	Criteria & F	orm		line(line)		Online	(online)]		
(1)		(2)	(3)	(4)		(5)			(6)	(7)	(8)	

1	Students are able to understand the basic concepts of distributed control systems	- Explain the concept of a distributed control system - Describe the block diagram of a distributed control system	Criteria:	Presentations, group discussions, case studies and reflections 2 X 50		0%
2	Students are able to understand the basic concepts of distributed control systems	- Explain the concept of a distributed control system - Describe the block diagram of a distributed control system	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50		0%
3	Students are able to understand the basic concepts of distributed control systems	- Explain the concept of a distributed control system - Describe the block diagram of a distributed control system	Criteria:	Presentations, group discussions, case studies and reflections 2 X 50		0%
4	Students are able to understand the basic concepts of distributed control systems	- Explain the concept of a distributed control system - Describe the block diagram of a distributed control system	Criteria:	Presentations, group discussions, case studies and reflections 2 X 50		0%
5	Students are able to understand the basic concepts of distributed control systems	- Explain the concept of a distributed control system - Describe the block diagram of a distributed control system	Criteria: -	Presentations, group discussions, case studies and reflections 2 X 50		0%
6						0%
7						0%
8						0%
9						0%
10						0%
11						0%
12						0%
13						0%

14				0%
15				0%
16				0%

 Evaluation Percentage Recap: Project Based Learning

 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.
- 2. 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.
- 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.
- 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 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.