

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

Document Code

SEMESTER LEARNING PLAN

Courses		CODE		Course Far		nily	Cred	it Wei	ght	SEME	STER	Compilation Date	
Process Control Systems		202010	2020102205				T=2	P=0	ECTS=3.18	5	5	July 18, 2024	
AUTHORIZAT		ION	SP Dev	eloper	c		Course Cluster Coordinator			Study Program Coordinator			
											Dr. Lusia Rakhmawati, S.T., M.T.		
Learning Project Based Lo model			d Learning	earning									
Program		PLO study program that is charged to the course											
Learning Outcom		Program Objectives (PO)											
(PLO)		PLO-PO Matrix											
			Ρ.	P.0									
		PO Matrix a	O Matrix at the end of each learning stage (Sub-PO)										
			P.O	L 2 3 4	4 5	6	7	W 8 9	/eek) 11 12	13	14	15 16
				introduction o tion of process				ystem	s, mat	hematical m	odels, c	ontrol s	system design,
References		Main :											
		 Curtis D. Jonhson.1989.Process Control Instrumentation Technology, 7th edition.PHI, New Jersey. Wolfgang Altmann.2005.Practical Process Control for engineers and Technicians.John Elsevier W.L. Luyben.1990. Simulation and Control for Chemical Engineers.McGraw Hill, 2nd edition 											
		Supporters:											
Support lecturer		Endryansyah,	S.T., M.T.										
Week of e		al abilities each ming stage	Ev	Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]			mate	Learning materials [References	Assessment Weight (%)	
	(Su	b-PŎ)	Indicator	Criteria & Fo	orm	Offlin offlin		0	nline	(online)]		
(1)		(2)	(3)	(4)		(5)		(6)	(7	7)	(8)

1	Students are able to understand the concept of process control systems Students are able to understand the concept of process control systems Students are able to understand the concept of process control systems	 Explain the meaning of a process control system - Explain the principles of process control Explain the meaning of a process control system - Explain the principles of process control Explain the principles of process control 	Criteria:	Lectures, discussions and questions and answers 2 X 50 Lectures, discussions and questions and answers 2 X 50		0%
	able to understand the concept of process control systems Students are able to understand the concept of process control	the meaning of a process control system - Explain the principles of process control - Explain the meaning of a process control	- Criteria:	discussions and questions and answers 2 X 50 Lectures,		0%
3	able to understand the concept of process control	the meaning of a process control				
		Explain the principles of process control		and questions and answers 2 X 50		0%
4	Students are able to understand the concept of process control systems	- Explain the meaning of a process control system - Explain the principles of process control	Criteria: -	Lectures, discussions and questions and answers 2 X 50		0%
5	Students are able to understand the concept of process control systems	- Explain the meaning of a process control system - Explain the principles of process control	Criteria:	Lectures, discussions and questions and answers 2 X 50		0%
6						0%
7						0%
8						0%
9						0%
10						0%
11						0%
12 13						0%
13						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.
- 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.
- 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.