

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

Document Code

SEMESTER LEARNING PLAN														
Courses		CO	CODE Cou		Course	rse Family		Credit Weight			ESTER	Compilation Date		
Digital Control Systems Practicum		202	01023	02327			T=2	P=0	ECTS=3.18	3	5	July 18, 2024		
AUTHORIZATIO		ION	SP	SP Developer				Course Cluster Coordinator			r Stud Coor	Study Program Coordinator		
											Dr	Dr. Lusia Rakhmawati, S.T., M.T.		
Learning Project Based Learning model														
Program		PLO study program that is charged to the course												
Learning		Program Objectives (PO)												
(PLO)		PLO-PO Matrix												
		P.O												
		PO Matrix at the end of each learning stage (Sub-PO)												
			P.O	1	2 3	4 !	5 6	7	W 8 9	eek	11 12	13	14	15 16
Short Course Description  This course provides practical knowledge about digital control systems and automation														
References		Main :												
		<ol> <li>D Pessen.1989.Industrial Automation.Wiley.</li> <li>S Baranov.1994.Logic Synthesis for Control Automata.Kluwer Academic Publisher.</li> </ol>												
		Supporters:												
Support lecturer		Muhamad Sy	ariffuddien	Zuhrie	e, S.Pd.,	M.T.								
Week-	Final abilities of each learning stage (Sub-PO)			Evaluation				Help Learning, Learning methods, Student Assignments, [Estimated time]			Learning materials [ References		Assessment Weight (%)	
			Indica	Indicator Criter		a & For		Offline (		nline (	( online )	]		
(1)		(2)	(3)		_	(4)		(5)		(6)			(7)	(8)
de im sr in au		udents can sign and plement nall-scale dustrial tomation stems	wiring F progran PLC an running progran	nming d	Criteria -	a:		actically ( 50						0%

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2	students can design and implement small-scale industrial automation systems	wiring PLC, programming PLC and running program	Criteria: -	practically 2 X 50			0%
3	students can design and implement small-scale industrial automation systems	wiring PLC, programming PLC and running program	Criteria: -	practically 2 X 50			0%
4	students can design and implement small-scale industrial automation systems	wiring PLC, programming PLC and running program	Criteria:	practically 2 X 50			0%
5	students can design and implement small-scale industrial automation systems	wiring PLC, programming PLC and running program	Criteria: -	practically 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%
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## Evaluation Percentage Recap: Project Based Learning

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No	Evaluation	Percentage							
		00%							

## 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.
- 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.
- Forms of assessment: test and non-test.
   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.