

Universitas Negeri Surabaya Faculty of Postgraduate School, Master of Technology and Vocational Education Study Program

Document Code

SEMESTER LEARNING PLAN															
Courses			CODE		Course Family		Credit Weight		SEMESTER		Compilation Date				
PLC and Pneumatic		83101	02024	Study Progra			P=0 EC		S=4.48	2	2		17, 2024		
AUTHOR	RIZATIO	N	SP De	SP Developer		e Cou	Course Cluster Coordinator		Study Program Coordinator						
										Dr. Ir. Achmad Imam Agung, M.Pd.					
Learning model	ı P	roject Ba	ased Learı	ed Learning											
Program Learning		PLO study program which is charged to the course													
Outcom (PLO)		Program Objectives (PO)													
(PLO)	P	LO-PO	Matrix												
			P.O												
	Р	PO Matrix at the end of each learning stage (Sub-PO)													
			P.O	P.O Week											
				1 2 3 4	4 5	6 7	8	9	10	11 1	2 13	14	15	16	
Short Course Descript	fu	Students will learn the basic principles of PLCs, including architecture, input/output types, and basic functions. They will learn about PLC hardware, including sensors, actuators, and their connection to control systems.													
Referen	ces N	lain :													
	S	Supporters:													
Support lecturer															
Week-	Final abilities of each		E	valuation		Help Learning, Learning methods, Student Assignments, [Estimated time]						Assessment			
	learni stage (Sub-	:	Indicator	Criteria & Fo		ffline (ffline)	Online (<i>onlin</i> e)		References]		Weight (%)				
(1)	((2)	(3)	(3) (4)		(5)	(6)			(7)		(8)			
1														0%	
2														0%	

3			0%
4			0%
5			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

- 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.
- 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.