

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

Document Code

## SEMESTER LEARNING PLAN

Courses			CODE		Course Family		Cred	lit We	eight	SEM	ESTER	Compilation Date	
Electrical Installation Engineering		83201	8320103183			T=3	P=0	ECTS=4.7	7	5	July 18, 2024		
AUTHORIZATION		SP De	SP Developer			Course Cluster Coordinator			Stud Coor	Study Program Coordinator			
											Dr. Nur Kholis, S.T., M.T.		
Learning model	I	Case Studies											
Program Learning		PLO study program that is charged to the course											
Outcom		Program Objectives (PO)											
(PLO)		PLO-PO Matrix											
			F	2.0									
		PO Matrix at the end of each learning stage (Sub-PO)											
			P.0				Week						
				1 2 3 4	4 5 6	6 7	8	9	10 11	12 13	3 14	15 16	
Chart		Lindorstanding o	nd atuduina	the function of	nd notur	o of a	drowin	ac	o toobnical	longuo	no drou	ing toolo linoo	
Short Course Description		Understanding and studying the function and nature of drawings as a technical language, drawing tools, lines and letters, providing measurements, electrical symbols, drawing charts and implementing perfect lighting electrical installations and industrial electric motor installations, planning and drawing perfect lighting electrical installations											
References		Main :											
		1.											
		Moyn Marbun. 1992. Menggambar Teknik Mesin. Bandung: M2S. Edy Setiawan. 1986. Instalasi Listrik Arus Kuat I. Jakarta: Bina Cipta.											
		Supporters:											
			•										
Supporting SUP		SUPARI											
Week-	Final abilities of each learning		E	Evaluation		Stu	Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials	Assessment	
	stag		Indicator	Criteria & Fo		fline ( fline )	0	nline	( online )	Refe	l rences ]	Weight (%)	
(1)		(2)	(3)	(4)	(	5)			(6)		(7)	(8)	

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equipment and understand the concept of industrial installations       2 × 50       0%         3       Introduction to AutoCAD as a media to help with installation design and introduction to according to specified       2 × 50       0%         4       Introduction to introduction to according to specified       2 × 50       0%         5       Introduction to installation design and introduction to installation design and introduction to installation notation according to applicable or specified standards       2 × 50       0%         6       Understand the standards       2 × 50       0%         7       Understanding of thread under standards       2 × 50       0%         8       0       0       0%         9       0       0       0%         10       0       0       0%         11       0       0       0%         12       0       0       0%	1	equipment and understand the concept of industrial		2 X 50		0%
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work safety rules and first aid in case of accidents     2 × 50     0%       7     Understanding of work safety rules and first aid in case of accidents     2 × 50     0%       8     0%     0%       9     0%     0%       10     0%     0%       11     0%     0%       12     0%     0%       13     0     0%	5	AutoCAD as a media to help with installation design and introduction to installation notation according to applicable or specified		2 X 50		0%
case of accidents         0%           8         0%           9         0%           10         0%           11         0%           12         0%           13         0%	6	work safety rules and first aid in		2 X 50		0%
9       0%         10       0%         11       0%         12       0%         13       0%	7	Understanding of work safety rules and first aid in case of accidents		2 X 50		0%
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	12					0%
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<b>16</b> 0%	16					0%

 Evaluation Percentage Recap: Case Study

 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.
- 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.