

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

Document Code

SEMESTER LEARNING PLAN

Courses		CODE	CODE Course					S	EMESTE		ompilation		
Drawing techniques			83201	Family 320102067			T=2	P=0	ECTS=3.	18	4		ate uly 17, 2024
AUTHORIZATION				SP Developer		Course Cluster			S	Study Program			
							Coordinator				Dr. Nur Kholis, S.T., M.T.		
Learning model	F	Project Based Learning											
Program Learning		PLO study program that is charged to the course											
Outcom		Program Objectives (PO)											
(PLO)	F	PLO-PO	Matrix	rix									
		P.0											
	F	PO Matrix at the end of each learning stage (Sub-PO)											
			P.O			Week							
				1 2 3 4	4 5	6 7	8	9	10 11	12	13 14	1	5 16
Short Course Description Description: Understanding and studying the function and nature of drawings as a techn drawing tools, lines and letters, providing measurements, electrical symbols, drawing char the ability to draw, analyze and implement electronic circuits into layout drawings on PCBs of tools images and electronic software.							narts	and having					
References		Main :											
		 Moyn Marbun. 1992. Menggambar Teknik Mesin. Bandung: M2S. Edy Setiawan. 1986. Instalasi Listrik Arus Kuat I. Jakarta: Bina Cipta. Supari Muslim, dan Joko (2009). Perencanaan dan Pemasangan Instalasi Listrik. Jakarta: Dit PSMK. 											
		Supporte	rs:										
	- F												
Supporting lecturer Dr. Edy Sulistiyo, M.Pd. Ibrohim, S.T., M.T. Parama Diptya Widayaka, S.ST., M.T.													
Week-	Final abilities of each learning stage (Sub-PO)			Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials		Assessment Weight (%)
			Indicator	Criteria & Fo		fline (fline)	0	nline	(online)	R	References]		- Signi (70)
(1)		(2)	(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.
- 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.