

Universitas Negeri Surabaya Vocational Faculty, D4 Electrical Engineering Study Program

Document Code

SEMESTER LEARNING PLAN

								-											
Courses	CODE		Course Family			Credit Weight				SE	MEST	FER	Com Date	pilati	on				
Practical Elec Circuits	2030502341		Compuls Study		sory	y T=0 P=2 ECTS=3.18			3.18		2 January 29, 2024			9,					
AUTHORIZAT	SP Developer	Subjects				Course Cluster Coordinator					Study Program Coordinator								
												Mahendra Widyartono, S.T., M.T.							
Learning model	Project Based Learning																		
Program	PLO study program that is charged to the course																		
Outcomes (PLO)	PLO-8 Able to build the performance or quality of a process through testing, measuring work objects, analyzing and interpreting data according to procedures and standards.																		
	Program Objectives (PO)																		
	PO - 1 Able to operate experimental equipment in electrical circuits.																		
	PO - 2 Able to plan solution approaches for RL, RC circuits, analysis of series and pa circuits, polyphase circuits.								l para	allel F	RLC								
	PO - 3 Students are able to interact and work together in electrical circuit practical groups								ıps										
	PO - 4 Able to be responsible for							sults of group work under supervision											
	PLO-PO Matrix																		
		P.O PLO-8 PO-1																	
	(at the end of each learning stage (Sub-PO)																		
	P.O Week																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		PO-1																	
		PO-2																	
		PO-3																	
		PO-4																	
Short Course Description	In this Electri Electrical Me Kirchoff's Lav Current Electr and Norton Measurement instantaneous triangle, delta	Electrical Circuit practice, practical work will be carried out regarding: Introduction to Analog cal Measuring Instruments, DC Voltage Sources, Operating an Oscilloscope, Ohm's Law and ff's Law, Series, Parallel and Combination Resistance Relationships, Voltage Dividers, Direct it Electric Power, Resistor Characteristics, Power Distribution maximum, Bridge Series, Thevenin lorton Methods, Super Position Method, Triangle Star Transformation, Indirect Resistance rement. Apart from the material above, the electrical circuit practicum will also discuss calculating aneous values, average values, effective current and voltage values, AC circuit analysis, power e, delta to star transformation, reluculation, polyphase, and transient.																	
References	Main :																		

	 Budiono Mismail. 1994. Rangkaian Listrik. Malang: UNIPRESS Unibraw Scaum, 1998. Rangkaian Listrik 1. Jakarta : Erlangga Theraja B.I. 1979. Electrical Technology. New Delhi: S Chand & Cendany 							
	Supporte	ers:						
Support lecturer	ing Mahendra Nur Vidia	Widyartono Laksmi B., S	o, S.T., M.T. S.ST, M.Sc.					
Week.	Final abilities of each	E	valuation	Lo Stu	Help Learning, earning methods, dent Assignments, Estimated time]	Learning materials	Assessment	
Trook	learning stage (Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (<i>online</i>)	References]	Weight (%)	
(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

INO	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.
- 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 abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.