UNESA

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

Document Code

UNES	UNESA									
SEMESTER LEARNING PLAN										
Courses		CODE		Course F	amily	Credit Weight		SEMESTER	Compilation Date	
Pulse Network		202010216	7			T=2 P=0	ECTS=3.18	5	July 18, 2024	
AUTHORIZATION		SP Develop	SP Developer		Cours	Course Cluster Coordinator		Study Program Coordinator		
							Dr. Lusia Rakhmawati, S.T., M.T.			
Learning model	Case St	udies							•	
Program	n PLO stu	udy prog	ram that is ch	narged to the	course					
Learning		Program Objectives (PO)								
(PLO)	PLO-PO	PLO-PO Matrix								
	P.O									
	PO Mat	rix at the	e end of each	learning stag	ge (Sub-P	0)				
		P.O 1 2						15 16		
Short Course Descript								(CR) circuits,		
Referen	ces Main:									
	1.	1.david	A bell," solid	state pulse	circuits"					
	Support	ters:								
Support lecturer	Reza Ra	ahmadian	Muhamad, S.T., , S.ST., M.EngS , S.T., M.T.							
Week- ead sta	each learnin stage	age		Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)	
	(Sub-PO)		Indicator	Criteria & Fo		line (line)	Online	e (online)	1	
(1)	(2)		(3)	(4)	((5)		(6)	(7)	(8)
1	introduction brief explan of the pulse series, explanation the learning contract	ation of			2 X 5	60				0%

2	Students will study pulse	1.Students will understand the	discussion, question	0%
	modulation and multiplexing	types of pulse modulation2. students will understand PAM modulation and demodulation3. students will understand Time division multiplexing4. students will understand PCM modulation and demodulation	and answer, lecture 2 X 50	
3	Students will study pulse modulation and multiplexing	1.Students will understand the types of pulse modulation2. students will understand PAM modulation and demodulation3. students will understand Time division multiplexing4. students will understand PCM modulation and demodulation and demodulation	discussion, question and answer, lecture 2 X 50	0%
4	students will study wave generators	1. Students will understand the types of wave generators2. Students will study the characteristics of pulse wave generators3. Students will study the harmonic content of wave generation	Lectures, discussions and questions and answers 2 X 50	0%
5	students will study wave generators	1. Students will understand the types of wave generators2. Students will study the characteristics of pulse wave generators3. Students will study the harmonic content of wave generation	Lectures, discussions and questions and answers 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%

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.
- 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.