

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

Document Code

SEMESTER LEARNING PLAN										
Courses			CODE		Course Family		Credit V	Veight	SEMESTER	Compilation Date
Digital Electronics Practice			832010)2214			T=2 P	=0 ECTS=3.18	5	July 18, 2024
AUTHORIZATION		SP De	SP Developer		Cour	rse Cluster Coordinator		Study Program Coordinator		
								Dr. Nur Kholis, S.T., M.T.		
Learning model										
Program Learning		PLO study program that is charged to the course								
Outcom		Program Objectives (PO)								
(PLO)		PLO-PO Matrix								
		P.O								
		PO Matrix at the end of each learning stage (Sub-PO)								
			P.O1	2 3 4	5 6	7	Weel	10 11 12	13 14	15 16
Short Course Description		Students are able to carry out digital electronics practicum which consists of basic gates, combination gates, encoders and decoders, 7 segments, flip flops, counter up, counter down, serial input parallel output								
References		Main :								
		1. Modul praktikum elektronika digital								
		Supporters:								
Support lecturer										
Week-	Final abilities of each learning stage (Sub-PO)		E	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		ethods, gnments,	Learning materials [References	Assessment Weight (%)
			Indicator	ndicator Criteria & Fo		line (line)	Onlii	ne (<i>online</i>)]	
(1)		(2)	(3)	(4)		(5)		(6)	(7)	(8)
1	dig ele	roduction to gital ectronics acticum	Students know the various types of practicum that will be carried out		Prac and The 2 X	ory				0%

_	T		1		
2	Students are able to understand and carry out basic gate and combination gate practicums	practicum 1. Basic Gates2. Combination gates	practical and theory 2 X 50		0%
3	Students are able to understand and carry out basic gate and combination gate practicums	practicum 1. Basic Gates2. Combination gates	practical and theory 2 X 50		0%
4	Students are able to carry out encoder, cecoder and seven segment practicums	Students are able to carry out encoder, cecoder and seven segment practicums	Practical and Theory 2 X 50		0%
5	Students are able to carry out encoder, cecoder and seven segment practicums	Students are able to carry out encoder, cecoder and seven segment practicums	Practical and Theory 2 X 50		0%
6	students are able to understand Flip flop and JK flip flop	students are able to understand Flip flop and JK flip flop	Practicum and Theory 2 X 50		0%
7	students are able to understand Flip flop and JK flip flop	students are able to understand Flip flop and JK flip flop	Practicum and Theory 2 X 50		0%
8	UTS		2 X 50		0%
9	Students are able to understand Counter up and Counter down	Students are able to understand Counter up and Counter down	Practical and Theory 2 X 50		0%
10	Students are able to understand Counter up and Counter down	Students are able to understand Counter up and Counter down	Practical and Theory 2 X 50		0%
11	Students are able to understand parallel input and parallel output. Students are able to understand serial input, parallel output	Students are able to understand parallel input and parallel output. Students are able to understand serial input, parallel output	Practical and Theory 2 X 50		0%
12	Students are able to understand parallel input and parallel output. Students are able to understand serial input, parallel output	Students are able to understand parallel input and parallel output. Students are able to understand serial input, parallel output	Practical and Theory 2 X 50		0%
13					0%
14					0%
15					0%
16					0%
l .	1		1	1	

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.