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

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Communication Electronics Circuits	8320103155		T=3	P=0	ECTS=4.77	6	July 18, 2024

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
	.....	.....	Dr. Nur Kholis, S.T., M.T.

Learning model	Case Studies
Program Learning Outcomes (PLO)	PLO study program that is charged to the course
	Program Objectives (PO)
	PLO-PO Matrix

	P.O

PO Matrix 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

Short Course Description	Analyze the electronic circuits used in an analog telecommunications system which include the following circuits: Filters; RF Amplifiers; Oscillator; and Modulator
References	**Main :**

1. Gronlund, N.E. 1980. Construction Achievement Test. New Jersey: Prentice Hall Inc
   Daryanto. 2005. Evaluasi Pendidikan. Jakarta: Remaja Rosda Karya
   Nitko, Anthony J. 1983. Educatioan, Test and Measurement. London. Hcourt

References	**Supporters:**
Supporting lecturer	Dr. Agus Budi Santoso, M.Pd.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (*offline*)	Online (*online*)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Can analyze LPF circuits; HPF and BPF are passive and active.	Can describe and analyze passive and active LPF circuits Can describe and analyze passive and active HPF circuits Can describe and analyze passive and active BPF circuits.	**Criteria:** Task Completion	Presentation, Discussion and reflection. 3 X 50			0%

2	Can analyze LPF circuits; HPF and BPF are passive and active.	Can describe and analyze passive and active LPF circuits Can describe and analyze passive and active HPF circuits Can describe and analyze passive and active BPF circuits.	**Criteria:** Task Completion	Presentation, Discussion and reflection. 3 X 50			0%
3	Can analyze LPF circuits; HPF and BPF are passive and active.	Can describe and analyze passive and active LPF circuits Can describe and analyze passive and active HPF circuits Can describe and analyze passive and active BPF circuits.	**Criteria:** Task Completion	Presentation, Discussion and reflection. 3 X 50			0%
4	Can analyze RF amplifier circuits.	Calculating RF Amplifier gain Determining the frequency response of the RF Amplifier	**Criteria:** Report	Presentation, Discussion and Reflection 3 X 50			0%
5	Can analyze RF amplifier circuits.	Calculating RF Amplifier gain Determining the frequency response of the RF Amplifier	**Criteria:** Report	Presentation, Discussion and Reflection 3 X 50			0%
6	Analyzing Oscillator Circuits	Analyzing the LC Oscillator Circuit Analyzing the X'tal Oscillator Circuit. Analyzing the VCO Circuit Analyzing the PLL circuit.	**Criteria:** Question	PresentationDiscussionReflection 3 X 50			0%
7	Analyzing Oscillator Circuits	Analyzing the LC Oscillator Circuit Analyzing the X'tal Oscillator Circuit. Analyzing the VCO Circuit Analyzing the PLL circuit.	**Criteria:** Question	PresentationDiscussionReflection 3 X 50			0%
8	Analyzing Oscillator Circuits	Analyzing the LC Oscillator Circuit Analyzing the X'tal Oscillator Circuit. Analyzing the VCO Circuit Analyzing the PLL circuit.	**Criteria:** Question	PresentationDiscussionReflection 3 X 50			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

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** 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.