

Universitas Negeri Surabaya Vocational Faculty, D4 Electrical Engineering Study Program

Document Code

	SEMESTER LEARNING PLAN									
Courses			CODE		Course F	amily	Credit Weigh	t	SEMESTER	Compilation Date
Transformer		9999204	0102031			T=2 P=0 E0	CTS=3.18	3	July 17, 2024	
AUTHORIZATION		SP Dev	SP Developer		Course Cluster Coordinator		Study Program Coordinator			
									Mahendra Widyartono, S.T., M.T.	
Learning model		Project Based L	earning			•			•	
		PLO study program that is charged to the course								
Learning Outcom		Program Object	n Objectives (PO)							
(PLO)		PLO-PO Matrix								
			P.O							
		PO Matrix at th	e end of eacl	learning stage (Su	ıb-PO)					
			P.O				Week			
			1	2 3 4 5	6 7	8	9 10 11	l 12	13 14	15 16
Short Course Description A transformer is an el transformers are use generator kit is increa gransmitted. Then, b transformer, accordir households generally available power supp and so on.		e used from poncreased first unit, not before being to its conting to its continuation of the continuation	ower generation cent sing a power transfor g used by consume esignation, such as naller size, such as the	ers to hom mer with the ers, the vol the area. inose used t	es. Be e aim o tage w ndustria o adius	fore being tran of reducing ener vill be reduced al, commercial, st the voltage of	smitted, the gy losses again in or reside felectrical	he voltage pro that occur who stages using ential. Transfor household eq	oduced by the en electricity is a distribution mers used in uipment to the	
Referen	ces	Main :								
		Alstom. 2011. Network Protection & Automatic Guide . Alstom Grid Worldwide Contact Centre www.alstom.com/grid/contactcentre. USA. Prih Sumardjati dll. 2008. Teknik Pemanfaatan Tenaga Listrik . Direktorat Pembinaan Sekolah Menengah Kejuruan. Jakarta. PLN-LMK. 2000. Pedoman Umum Instalasi Listrik . Jakarta. Zuhal. 1991. Dasar Tenaga Listrik. Bandung: Press ITB.								
		Supporters:								
Support lecturer		Aditya Chandra I	of. Dr. Joko, M.Pd., M.T. ditya Chandra Hermawan, S.ST., M.T. ur Vidia Laksmi B., S.ST, M.Sc.							
Week-	eac stag			Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)	
(Su		b-PO)	Indicator	Criteria & For		line (line)	Online (o	nline)]	
(1)		(2)	(3)	(4)	(5)	(6)		(7)	(8)

1	Understanding Transformer Practices globally.	Understanding Transformer Practices globally.	Lectures, discussions and questions and answers 3 X 50		0%
2					0%
3	Understand how to test a Transformer without load	Understand how to test a Transformer without load	Discussion, practice, Test data analysis. 3 X 50		0%
4	Understand how to test a Transformer without load	Understand how to test a Transformer without load	Discussion, practice, Test data analysis. 3 X 50		0%
5	Understand how to test a Transformer without load	Understand how to test a Transformer without load	Discussion, practice, Test data analysis. 3 X 50		0%
6	Understand how to test Short Circuit Transformers	Understand how to test Short Circuit Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
7	Understand how to test Short Circuit Transformers	Understand how to test Short Circuit Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
8	Understand how to test Short Circuit Transformers	Understand how to test Short Circuit Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
9	Understand how to test Short Circuit Transformers	Understand how to test Short Circuit Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
10	Understand how to test Full Load/Load Transformers	Understand how to test Full Load/Load Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
11	Understand how to test Full Load/Load Transformers	Understand how to test Full Load/Load Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
12	Understand how to test Full Load/Load Transformers	Understand how to test Full Load/Load Transformers	Discussion, practice, Test data analysis. 3 X 50		0%
13					0%
14					0%
15					0%
16					0%
			L	l	

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.
- 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.
- 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.
- 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.