

Universitas Negeri Surabaya Vocational Faculty, D4 Transportation Study Program

Document Code

SEMESTER LEARNING PLAN													
Courses			CODE Course Family		Credit Weight		SEMESTER						
Sail Machaniaa Prastical			39301030	147				T=3 P=0 ECTS=4.77		3	Date July 16, 2024		
Soil Mechanics Practical			SP Devel				Course	T=3		ordinator	Study Prog		
AUTHORIZATION			SF Devel	ореі			Course	Cius	iei Cc	orumator	Coordinator		
										Dr. Anita Susanti, S.Pd., M.T.			
Learning Project Based Learning model		Learn	ning										
Program		PLO study pro	ogran	n that is c	harged to th	e cour	se						
Outcom		Program Objectives (PO)											
(PLO)		PLO-PO Matrix											
P.O													
PO Matrix at the		he en	end of each learning stage (Sub-PO)										
			P	P.O									
				1	2 3 4	5	6 7	8	9	10	11 12	13 14	15 16
Short Course Description 1. Students have kn and in the field, in a are able to explain KNOWLEDGE FIEL field of civil engineer		in acc lain b =IELD	cordance v asic know).3. Studei	with those deter dedge about sonts are able to	ermined soil shea analyze	by the far streng	ield of ci jth, whic	vil enç h is s	gineer uitable	ing (WORK F e for civil en	FIELD ASPECT gineering world	TS).2. Students ((ASPECT OF	
Referen	ces	Main:											
Terjemaha		ahan B	3. Mochtar		013. Me	kanika T	anah II (Prinsi	p-prins	sipRekayasa(Geoteknis). Ja	. M. Das Braja. karta: Erlangga iversity Press	
		Supporters:											
Supporting lecturer Dra. Nur Andajani, M.T. Arik Triarso, S.Pd., M.T. Mochamad Firmansyah Sofianto, S.T., M.Sc., M.T.													
Week- eac stag		inal abilities of ach learning tage		Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)			
		b-PO)	Inc	dicator	Criteria & I	Form		ine (ine)	C	Online	(online)	1	
(1)		(2)		(3)	(4)		(5)			(6)	(7)	(8)

1	Able to understand laboratory soil compaction	Able to explain the meaning & function of soil compaction - Able to draw proctor compaction graphs - Able to determine. price of max soil density (gdmax) & optimum water content (wcopt) Able to calculate and draw the gdZAV curve.	Criteria: Full marks are obtained if you do all the questions correctly and correctly analyze the assignment	Lectures, discussions and questions and answers as well as 3 X 50 demonstrations		0%
2	Able to understand laboratory soil compaction	Able to explain the meaning & function of soil compaction - Able to draw proctor compaction graphs - Able to determine. price of max soil density (gdmax) & optimum water content (wcopt) Able to calculate and draw the gdZAV curve.	Criteria: Full marks are obtained if you do all the questions correctly and correctly analyze the assignment	Lectures, discussions and questions and answers as well as 3 X 50 demonstrations		0%
3	Able to understand field soil compaction	Able to explain the meaning of compaction in the field Can determine the price of lap density Determine the relative density, dry set and wet set water content	Criteria: Full marks are obtained if you do all the questions correctly and correctly analyze the assignment	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
4	Able to understand field soil compaction	Able to explain the meaning of compaction in the field Can determine the price of lap density Determine the relative density, dry set and wet set water content	Criteria: Full marks are obtained if you do all the questions correctly and correctly analyze the assignment	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
5	Able to understand the shear strength of soil	- can determine tags. swipe & tag. normal sec. analytical can determine shear girders & graphical sec normal tiles with Mohr's Circle & Polar Method.	Criteria: perfect score if answered correctly and precisely	question and answer discussion lecture and 3 X 50 demonstration		0%

6	Able to understand the shear strength of soil	- can determine tags. swipe & tag. normal sec. analytical can determine shear girders & graphical sec normal tiles with Mohr's Circle & Polar Method.	Criteria: perfect score if answered correctly and precisely	question and answer discussion lecture and 3 X 50 demonstration		0%
7	Able to understand the shear strength of soil	- can determine tags. swipe & tag. normal sec. analyticalcan determine shear girders & graphical sec normal tiles with Mohr's Circle & Polar Method.	Criteria: perfect score if answered correctly and precisely	question and answer discussion lecture and 3 X 50 demonstration		0%
8	UTS			3 X 50		0%
9	Students are able to understand soil compression	can explain about the compression that occurred in the year can explain the difference. NC clay & OC Soil can determine teg. land overburden.	Criteria: perfect score if answered correctly and precisely	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
10	Students are able to understand soil compression, NC Soil clay and OC Soil	- can be determined. pre-consolidation tag, Cc lap and Cs from the e Vs log s graph for NC and OC Soil can determine the settlement that occurs in NC clay and OC Soil	Criteria: perfect score if answered correctly and precisely	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
11	Students are able to understand soil compression, NC Soil clay and OC Soil	- can be determined. pre-consolidation tag, Cc lap and Cs from the e Vs log s graph for NC and OC Soil can determine the settlement that occurs in NC clay and OC Soil	Criteria: perfect score if answered correctly and precisely	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
12	Soil compression time	can agree. consolidation time through t50 can determine the consolidation coefficient - can determine the consolidation time through t90.	Criteria: perfect score if answered correctly and precisely	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%

13	Soil compression time	can agree. consolidation time through t50 can determine the consolidation coefficient - can determine the consolidation time through t90.	Criteria: perfect score if answered correctly and precisely	Lectures, discussions, and questions and answers as well as 3 X 50 demonstrations		0%
14	Able to understand test sondir	Students can explain Sondir & boring in the field	Criteria: perfect score if answered correctly and precisely	lecture discussion question and answer 3 X 50		0%
15	Able to understand test sondir	Students can explain Sondir & boring in the field	Criteria: perfect score if answered correctly and precisely	lecture discussion question and answer 3 X 50		0%
16						0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
		Λ%

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.
- 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%.
- ${\bf 12.\ TM}\hbox{-}{\sf Face\ to\ face,\ PT}\hbox{-}{\sf Structured\ assignments,\ BM}\hbox{-}{\sf Independent\ study}.$