

Universitas Negeri Surabaya Vocational Faculty, D4 Transportation Study Program

Document Code

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SEMESTER LEARNING PLAN																			
Courses				CODE Course Family				Credit Weight					EMEST	ER	Comp Date	ilation			
Land Sur Science	veyi	ng and Mapping		99993940104032					T=2 P=2		ECTS=6.36		3		July 1	6, 2024			
AUTHOR	IZAT	ION		SP Developer				Cour	se C	Cluste	er Co	ordinator		udy P oordin		ım			
														Dr. Anita Susanti, S.Pd., M.T.					
Learning model		Case Studies																	
Program Learning		PLO study prog	jram t	that is chai	ged to the	e cours	se												
Outcome (PLO)		Program Objec	tives	(PO)															
(FLO)		PLO-PO Matrix																	
				P.O															
		PO Matrix at the	e end	of each lea	arning sta	ge (Su	b-PO)												
			P	P.O						W	'eek								
				1	2 3	4	5	6	7	8 9	9	10	11	. 12	13	14	1	5 1	.6
Short Course Descript	ion	Measurement to of for mapping, plan					betwee	en two	points	s. Spirit	leve	l mea	suren	nents are ve	ry in	nportar	t for	obtain	ng data
Reference	ces	Main:																	
		1. : [1]. Muhamadi, M, 1999, Diktatllmu Ukur Tanah,Teknik Sipil dan Perencanaan, JurusanTeknik Sipil Nopember Surabaya.[2]. Wongsotjitro, S, 1985.llmu Ukur Tanah ,Penerbit Kanisius.[3]. Brinker, Russel Dasar - dasar Pengukuran Tanah (Surveying), PenerbitErlangga.[4].Amir, Z, 1988, Dasar-das DanPemetaan Situasi, Jurusan Teknik Sipil FakultasTeknik, Universitas Andalas.						sel (C, dan	Wolf,	Paul F	1, 1986,							
		Supporters:																	
Supporti lecturer	ing	Dr. Ir. H. Soeparn Amanda Ristriana R. Endro Wibison	ι Pattis	sinai, S.T., M	.т.														
Week- Week- Final abilities of each learning stage (Sub-PO)			Evaluation					Help Learning, Learning methods, Student Assignments, [Estimated time]				ľ	Learning materials [References		Assessment Weight (%)				
		ıb-PO)		dicator	tor Criteria & Form			of	Offline (offline)		Online (online)]					
(1)		(2)		(3)		(4)				(5)			(6)		(7)			(8)
1	an ac	le to explain IUT d create maps cording to correct ındards.	mea and requ 2. E vario of m Expl brar geod land	xplain the aning of IUT map irrements. xplain the ous types haps. 3. lain the noches of desy and I ssurement	Criteria: Full mar answer correctly	everýthi			Lectur Quest answe practic 4 X 50	ion and r and e								(9%

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2	Able to carry out direct and indirect measurements and calculations.	Explain the various types of measurement work. 2. Determine the measurement error calculation.	Criteria: Full marks are obtained if the types and calculations are explained correctly	Question and answer discussion lectures and practical demonstrations in the 4 X 50 field		0%
3	Able to carry out direct and indirect measurements and calculations.	Explain the various types of measurement work. 2. Determine the measurement error calculation.	Criteria: Full marks are obtained if the types and calculations are explained correctly	Question and answer discussion lectures and practical demonstrations in the 4 X 50 field		0%
4	Able to determine azimuth and point coordinates	1. Determine the azimuth of two fixed points 2. Determine the coordinates of the points	Criteria: Full marks are obtained if the azimuth angle image is correct, the azimuth angle value and the point coordinates are correct	Practice questions 4 X 50		0%
5	Able to determine azimuth and point coordinates	Determine the azimuth of two fixed points Determine the coordinates of the points	Criteria: Full marks are obtained if the azimuth angle image is correct, the azimuth angle value and the point coordinates are correct	Exercises. 4 X 50		0%
6	Able to determine the position of point coordinates using the Cartesian Coordinate System	1. Determine the coordinate position of the point. 2. Calculate and draw the Cartesian Coordinate System.	Criteria: Full marks are obtained if the coordinates of the point and the written layout of the complete report are correct	Exercises. 4 X 50		0%
7	Able to know about tools.	Explain the various tools. Explaining Tool Knowledge.	Criteria: 1.Full marks are obtained if you know and understand the operation of the equipment 2.The completeness of the report is written correctly	Field practical discussion lecture 4 X 50		0%
8	UTS	-	Criteria: Full marks if you can answer everything correctly	- 2 X 50		0%
9	Able to determine angles and make maps in the field.	Calculating right angles Explaining right angles in the field Making maps with simple tools.	Criteria: Full marks and correct writing and completeness of the report	Lectures, discussions, practical exercises in the field. 4 X 50		0%
10	Able to determine angles and make maps in the field	Calculating right angles Explaining right angles in the field Making maps with simple tools.	Criteria: Full marks and correct writing and completeness of the report	Lectures, discussions, practical exercises in the field. 4 X 50		0%
11	Able to determine the accuracy of measurements using a spirit level	Calculating the accuracy of the water level height difference. Explain measurement accuracy and height differences.	Criteria: 1.Full marks are obtained if there is no difference in the high accuracy values 2.The completeness of the report is written correctly	Lectures and practical training in the field. 4 X 50		0%
12	Able to determine longitudinal and profile measurements	Calculate the longitudinal flat edge measurements. Explaining the measurement of a longitudinal flat profile. Calculating the measurement of a profile flat profile	Criteria: Full marks if you can answer everything correctly	Lectures, discussions, exercises and practice in the 4 X 50 field		0%

13	Able to determine longitudinal and profile measurements	Calculate the longitudinal flat edge measurements. Explaining the measurement of a longitudinal flat profile. Calculating the measurement of a profile flat profile flat	Criteria: Full marks if you can answer everything correctly	Lectures, discussions, exercises and practice in the field. 4 X 50		0%
14	Able to determine longitudinal and profile measurements	Calculate the longitudinal flat edge measurements. Explaining the measurement of a longitudinal flat edge. Calculating the measurement of a flat profile profile	Criteria: Full marks are obtained if the situation mapping image at a certain scale matches the original form	Lectures, discussions, exercises and practice in the field. 4 X 50		0%
15	Able to create maps correctly according to standards	Calculate distance measurements, height differences and angles. Draw a map	Criteria: Full marks if you can answer everything correctly	training and practice on the 4 X 50 field		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.
- 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.
- 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.