

INSTITUT TEKNOLOGI SEPULUH NOPEMBER FACULTY OF CIVIL, PLANNING AND GEO ENGINEERING DEPARTMENT OF GEOMATICS ENGINEERING UNDERGRADUATE STUDY PROGRAM

Document Code

			SEMESTE	R LEARNING	PLAN (SLP)							
COURSE NAME			CODE COURSE		P	CREDITS (SKS)		SEMESTER	Date of			
									Preparation			
Practical Work			CM234733	-		T=0	P=3	7	-			
AUTHORIZATION			SLP Developer		Course Group Coordinator			Head of Study	Head of Study Program			
			Danar Guruh Pratomo, S.T., M.T., Ph.D.		-			Putra Maulida,	S.T., M.T., Ph.D.			
Learning Outcomes	Expected	Learning O	utcomes (ELO) that I	mposed in the								
(LO)	Course											
	ELO-6	Able to ide	ntify, formulate, analyz	ze and solve prob	ems in the fields	of Geodesy an	d Survey	ing, Hydrograph	y, Photogrammetry			
		and Remot	te Sensing, as well as G	eospatial and Lar	d Information.							
	ELO-7	Able to pe	rform spatial data acc	quisition using m	odern measuren	nent methods	, geospat	ial data process	ing, using industry			
			software, and making					desy and Survey	ing, Hydrography,			
		Photogram	nmetry and Remote Se	nsing, as well as (leospatial and La	nd Informatio	n.					
	ELO-10	Able to wo	ational and inter	d international levels.								
	ELO-12			anagement, entr	epreneurship, in	novation base	d on the	latest technolog	st technology, sustainable and			
			entally sound									
	Course Le	earning Outo	comes (CLO)									
	CLO-1	Able to for	mulate problems for P	ractical Work and	l make designs in	survey and m	apping a	ctivities based o	n certain standards			
		of the Indo	nesian National Standa	ard (SNI) from the	National Standa	rdization Agei	ncy (BSN) and the Interna	tional Organization			
			for Standardization (ISO).									
	CLO-2	Able to car	Able to carry out practical work by applying information & communication technology in the fields of geodesy, surveying,									
		hydrograp	hy, remote sensing, ph	iotogrammetry, g	eographic inform	ation systems	s, and cad	lastre.				
	CLO-3				nd qualitatively, draw clear conclusions and recommend the results of their							
			terested parties from v		•							
	CLO-4	Able to ma	ole to make Practical Work reports starting from the preparation of designs, and the implementation of Practical W						Practical Work.			

	Matrix ELO - CLO									
	CLO									
		ELO-6	ELO-7	ELO-10	ELO-10					
	CLO-1	V	V	V	V					
	CLO-2	V	V	V	V					
	CLO-3	V	V	V	V					
	CLO-4	V	V	V	V					
Course Description	This course aims to provid activities in accordance wit	h specific standards, sı	uch as the Indonesian	National Standard (S	NI) from the National Sta	ndardization Agency				
	(BSN) and the Internation									
	technology in the fields of									
	cadastre. Additionally, stu		-	-	-	-				
	relevant recommendations				pected to prepare a comp	rehensive Internship				
	(Kerja Praktek) report, cov		ution of the activities							
Course Materials	1. Formulating problems		1100 . 1 1							
	2. Designing surveys in a					ara l				
	3. Information and comm					ry, GIS, and cadastre.				
	4. Information and comr		in Internship (Kerja	Praktek) for surveying	g and mapping.					
	5. Quantitative and quali	itative analysis.								
	6. Drawing conclusions.									
	7. Preparing work repor									
	8. Presenting internship									
	9. Defending and recomm	nending internship res	sults.							
References	Main:									
	1. Standar Nasional Indo	nesia (SNI) by BSN, ISO	O (International Organ	nization for Standardi	zation), and Related Gove	ernment Regulations				
	& Technical Guideline	S.								
	2. Ghilani, C. D., & Wolf, I	P. R. (2017). Elementa	ry Surveying: An Int	troduction to Geoma	itics (15th ed.). Pearson.					
	3. Kavanagh, B. F., & Bird	l, S. J. (2013). <mark>Surveyi</mark> r	ng: Principles and A	pplications (9th ed.).	Pearson.					
	4. Lillesand, T., Kiefer, R.	W., & Chipman, J. (201	5). Remote Sensing	and Image Interpre	tation (7th ed.). Wiley.					
	5. Smith, M. J., Parry, S., & Griffiths, J. S. (2014). Professional Surveying Practice . Whittles Publishing.									
	Schofield, W., & Breach, M.				J					
 	Additional:									

Lecturer	Danar Guruh Pratomo, S.T., M.T., Ph.D.
Prerequisite	

Class/ Week	Lesson Learning Outcome (Sub-CLO)		lluation	Learning Forms, Learning Methods, Student Assignments /Task, [Estimated Time]		Learning Materials [References]	Weight (%)
		Indicators	Criteria	Offline	Online		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1-2	Able to formulate problems for Internship (Practical Work) and develop survey and mapping designs based on SNI and ISO standards.	Accuracy in formulating problems for Internship (Practical Work) and develop survey and mapping designs based on SNI and ISO standards.	 Completeness of material Depth of explanation and effectiveness of communication 	1. Lecture [1 x 50'] 2. Discussion [1 x 50']		 Formulating problems. Designing surveys in accordance with SNI and ISO standards. 	5
3-4	Able to identify information and communication technology in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, GIS, and cadastre.	Accuracy in identifying information and communication technology in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetr y, GIS, and cadastre.	 Completeness of material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 50'] 2. Discussion [1 x 50'] 3. Assignment [1 x 50']		Information and communication technology in geodesy, surveying, hydrography, remote sensing, photogrammetry, GIS, and cadastre.	10

5-6	Able to apply information and communication technology in Internship (Practical Work) for survey and mapping activities.	Accuracy in applying information and communication technology in Internship (Practical Work) for survey and mapping activities.		Completeness of material Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion [1 x 50']	Information and communication technology in Internship (Kerja Praktek) for surveying and mapping.	10
7	Able to perform quantitative and qualitative analysis in Internship (Practical Work).	Accuracy in performing quantitative and qualitative analysis in Internship (Practical Work).		Completeness of material Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion, Assignment [1 x 50'] 3. Response/Exercise [1 x 50']	Quantitative and qualitative analysis.	15
8	Midterm Evaluation / Midterm	Exam					50
9-10	Able to draw clear conclusions and provide recommendations based on the results of the Internship (Practical Work).	Accuracy in to drawing clear conclusions and provide recommendations based on the results of the Internship (Practical Work).	1.	material	 Lecture [2 x 50'] Discussion, Assignment [1 x 50'] Response [1 x 50'] 	Drawing conclusions.	10
11-12	Able to produce an Internship (Practical Work) report that adheres to scientific report standards.	Accuracy in producing an Internship (Practical Work)	1. 2.	Completeness of material Depth of explanation and	 Lecture [2 x 50'] Discussion, Assignment [1 x 50'] Response [1 x 50'] 	Preparing work reports.	10

15	Able to defend the report and recommendations of the Internship (Practical Work)	Accuracy in defending the report and	 Completeness of material Depth of 	1. Lecture [2 x 50'] 2. Discussion, Assignment [1 x 50']	Defending and recommending internship results.	
	Internship (Practical Work) in front of examiners.	recommendatio ns of the Internship (Practical Work) in front of	•	[1 x 50'] 3. Response/exercise [1 x 50']	internship results.	30
16	Final Semester Evaluation / Fin	examiners. al Semester Examir	nation			100