

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

Document Code

SEMESTER LEARNING PLAN (SLP) CREDITS (SKS) **COURSE GROUP COURSE NAME** CODE SEMESTER Date of Preparation CM234835 **Final Project** T=6 **P=0** 7 _ **Head of Study Program AUTHORIZATION SLP Developer Course Group Coordinator** Hepi Hapsari Handayani, S.T., M.Sc., Danar Guruh Pratomo, S.T., M.T., Ph.D. Ph.D. Expected Learning Outcomes (ELO) that Imposed in the Learning Outcomes (LO) Course ELO-4 Able to apply mathematics, science, and engineering in the fields of Geodesy and Surveying, Hydrography, Photogrammetry and Remote Sensing also Geographic Information Systems and Cadastral to gain a thorough understanding of the principles of engineering. ELO-5 Able to design survey and mapping activities using the latest technology in the fields of Geodesy and Surveying, Hydrography, Photogrammetry and Remote Sensing also Geographic Information Systems and Cadastral. Able to identify, formulate, analyze and solve problems in the fields of Geodesy and Surveying, Hydrography, Photogrammetry ELO-6 and Remote Sensing also Geographic Information Systems and Cadastral. ELO-8 Able to compile scientific reports and provide solutions based on leadership, creativity and communication skills as well as being responsible for the work done. Able to be responsible to the community and adhere to professional ethics in solving technical problems in the fields of ELO-11 Geodesy and Surveying, Hydrography, Photogrammetry and Remote Sensing also Geographic Information Systems and Cadastral. **Course Learning Outcomes (CLO)** Able to formulate Final Project research problems and make designs in survey and mapping activities based on certain CLO-1 standards of the Indonesian National Standard (SNI) from the National Standardization Agency (BSN) and the International Organization for Standardization (ISO).

	CL	.0-2	Able to evaluate quantitatively and qualitatively, draw clear conclusions and recommend the results of their research to							
			interested parties from various sectors and fields with the solution of these problems.							
	CL	.0-3	Able to make research reports starting from the preparation of research designs, research implementation to studies and							
			evaluations.							
	CL	.0-4	Able to present	Able to present the results of final project research responsibly in the seminar forum and defend it in an oral examination in						
		<u> </u>	front of a team of examining lecturers.							
	CL	.0-5	Able to carry out research by applying information & communication technology in the fields of geodesy, surveyin							
			nydrograpny, remote sensing, photogrammetry, geographic information systems, and cadastre.							
	Matrix FLO-CLO									
	CLO CLO-1 CLO-2			ELO-4	ELO-5	ELO-6	ELO-8	ELO-11		
				V						
					V					
	CLO-3					V				
		CLO-4					V			
		CLO-5						V		
Course Description	The Final Project is a scientific work based on a research or design activity, prepared within a semester, under the guidance of a supervisor									
	and can be assisted by an assistant supervisor. The supervisor here acts as a facilitator, director, and determines the idea of implementing									
	the Final Project. The team of examining lecturers conducted an assessment in terms of report writing, scientific field material, attitude in									
	maintaining ideas and final project presentation. By compiling the Final Project, students are expected to be able to summarize, apply,									
	pour, solve all knowledge, skills, ideas and problems in certain fields of expertise / fields of study systematically and logically, critically									
Course Materials	1	Standa	rds for surveying	and manning both Ir	donesian National St	accurate uata / milli	National Standardi	ration Agency (RSN) or	nd	
Course materials	1. Standards for surveying and mapping both Indonesian National Standards (SNI) from the National Standardization Agency (BSN) and the International Organization for Standardization (ISO) for example SNI 9472, 2019 concerning Semidetailed Land Survey and									
	the international organization for Standardization (ISO) for example SNI 8473: 2018 concerning Semidetailed Land Survey and Mapping scale 1: 50,000, SNI ISO 19111, 2011, concerning Geographical Information – Spatial Peteronea with Geordinates, SNI Surta									
	Number RSNI3 7657 · 2010 concerning Hydrographic Surveys SNI Surta Number SNI 19-7149 of 2005 concerning Heavy Force Control									
	Networks, and others.									
	2.	Applica	tion of informat	tion & communicat	ion technology in tl	ne fields of geodesy	, surveying, hydrog	raphy, remote sensin	ıg,	
	photogrammetry, geographic information systems, and cadastral in the implementation of research.									
	3. Application of calculation methods related to the topic of the final project, study and evaluation of results and research processes to									
	solve problems.									
	4. Making research reports starting from the preparation of research designs, research implementation to studies and evaluations.									
	5. Presentation of final project research results responsibly in seminar forums and sessions.									

References		Main:										
		1. Department of Geomatics Engineering. 2013. Final Project Preparation Rules. Sepuluh Nopember Institute of Technology. Surabaya										
		2. Sepuluh Nopember Institute of Technology Quality Assurance Office. 2017. Final Project Guide. Surabaya.										
		Additional:	Additional:									
Lectur	er	Lecturer										
Prereg	uisite	Research Me	hodology									
					Learning Forms, Learning	g Methods, Student						
Class/	Lesson Learning Outcome		Itcome Valuation		Assignments /Task,		Learning Materials	Weight				
Week	(Sub-CLC))			[Estimated	Time]	[References]	(%)				
			Indicators	Criteria	Offline	Online						
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)				
1	Able to formulate	research		1. Completeness of	Formulation of research		Indonesian National	20				
	problems and make designs			the material	problems and design		Standard (SNI) from the					
	in survey and mapping			2. Depth of	design		National					
	activities based of	n certain		explanation and			Standardization Agency					
	standards of the Indonesian			effectiveness of			(BSN) and the					
	National Standard (SNI) from			communication			International					
	the National Standardization						Organization for					
	Agency (BSN) and	the					Standardization (ISO) for					
	International Orga	anization					surbei and mapping					
	for Standardizatio	on (ISO).					activities					
2	Able to apply information &			1. Completeness of	Conduct of research		Information &	20				
	communication technology			the material			communication					
	in the fields of geodesy,			2. Depth of			technology in the fields					
	surveying, hydrography,			explanation and			of geodesy, surveying,					
	remote sensing,			effectiveness of			hydrography, remote					
	photogrammetry,			communication			sensing,					
	geographic information						photogrammetry,					
	systems, and cada	astral in the					geographic information					
	implementation of final						systems, and cadastral					
	project research.											

3	Able to evaluate	1. Completeness of	Quantitative and		Application of	20
	quantitatively and	the material	qualitative evaluation		calculations and	
	qualitatively, draw clear	2. Depth of	and conclusion drawing		theories for quantitative	
	conclusions and recommend	explanation and			and qualitative	
	the results of their research	effectiveness of			evaluation and in	
	to interested parties from	communication			drawing clear	
	various sectors and fields				conclusions.	
	with the solution of these					
	problems.					
4	Able to make research	1. Completeness of	Report preparation		Final project research	20
	reports starting from the	the material			report	
	preparation of research	2. Depth of				
	designs, research	explanation and				
	implementation to studies	effectiveness of				
	and evaluations.	communication				
5	Able to present the results	1. Completeness of	Presentation		Presentation of	20
	of final project research	the material			research results	
	responsibly in the seminar	2. Depth of				
	forum and defend it in an	explanation and				
	oral examination in front of	effectiveness of				
	a team of examining	communication				
	lecturers.					
TOTAL						