

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

Document Code

		SEM	IESTER LEARNING	G PLAN (SLP)					
COURSE NAME		CODE	COURSE GRO	OUP	CREDITS (SKS) T=2 P=1		SEMESTER	Date of Preparation	
Survey and Mapping Ma	ınagement	CM234423	CM234423 Geospatial				4	-	
AUTHORIZATION		SLP Developer	SLP Developer		Course Group Coordinator		Head of Study Program		
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Learning Outcomes	Expected	Learning Outcomes (ELO) that Imposed in the						
(LO)	Course								
	ELO-3	Hydrography, Photogram appropriate decisions from learning activities whose thinking. Able to manage self-learn to make a real contribut attention to the principle	Able to study and utilize science and technology in order to apply it to the areas of expertise in Geodesy and Surveying, Hydrography, Photogrammetry, and Remote Sensing, as well as Geospatial and Land Information, and able to make appropriate decisions from the results of their own work or group work in the form of a final project report or other forms of learning activities whose outcomes are equivalent to the final project through logical, critical, systematic and innovative thinking. Able to manage self-learning, and develop a personal lifelong learner to compete at national and international levels, in order to make a real contribution to solving problems by implementing information and communication technology and paying attention to the principles of sustainability, and understanding technology-based entrepreneurship.						
	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-10	Able to work in inter-disciplinary and inter-cultural teams so they can compete at national and international levels.							
	Course L	earning Outcomes (CLO)							
	CLO-1	Students have knowledge	Students have knowledge of the main objectives of project management science.						
	CLO-2	Students have knowledge	e of basic theories and r	nethods of project	management	•			
	CLO-3	Students have experience to do financial calculations in mapping work.							

	CLO-4	Students are able to	think critically about the use	and management of meas	surements and mapping f	or planning and some life				
			their understanding of the pri							
	CLO-5		express their ideas or ideas o			•				
			_							
		Matrix ELO - CLO								
		CLO	ELO-2	ELO-3	ELO-4	ELO-10				
		CLO-1	V	V						
		CLO-2	V	V	V					
		CLO-3	V	V	V					
		CLO-4		V	V	V				
		CLO-5			V	V				
Course Materials	2. Legisla3. Terres4. Project5. Project	4. Project Management Photogrammetry and Remote Sensing Mapping								
		ization of Survey and M								
			ce of Mapping Survey Work							
		ct Planning, Scheduling								
		9. TOR/RKS for Surveying and Mapping work								
	10. Tender Process for Survey and Mapping Work									
Defenerace	11. K3 asp	pects in Survey and Ma								
References	11. K3 asp Main:	pects in Survey and Ma	pping activities							
References	11. K3 asp Main: 1. A.A. Ka	pects in Survey and Ma araini. Pengantar Mana	pping activities ajemen Proyek. 1994.	2						
References	11. K3 asp Main: 1. A.A. K3 2. Arief F	pects in Survey and Ma araini. Pengantar Mana Rahman, Seri Diktat Ku	pping activities ajemen Proyek. 1994. liah Tata Laksana Proyek.199							
References	11. K3 asp Main: 1. A.A. K3 2. Arief F	araini. Pengantar Mana Rahman, Seri Diktat Ku emen Proyek, Konsep	pping activities ajemen Proyek. 1994.							

	1. Kuliah Manajemen Media, Subhan Afifi. Https://www.slideshare.net/subhanafifi/prinsip-dasar-manajemen.							
	IAMPI. Ikatan Ahli Manajemen Proyek Indonesia. Https://www.iampi.org							
Lecturer	1. Akbar Kurniawan S.T., M.T.							
	Khomsin, S.T., M.T.							
	Yanto Budisusanto, S.T., M.Eng							
Prerequisite	1. Advanced Terestris Mapping							
	Remote Sensing							
	3. Geographic Information Systems							

Class/ Lesson Learning Outcon Week (Sub-CLO)		Valuation		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	Students are able to explain the Concepts and Understanding of Project Management	Accuracy in explaining the Concepts and Understanding of Project Management	 Completeness of the material Depth of explanation and effectiveness of communication 	 1. Lecture [1 x 50'] 2. Discussion [1 x 50'] 3. Exercise [1 x 50'] 		Concepts and Understanding of Project Management	5
2 - 3	Students are able to explain Project Management Life Cycle and Legislation and Ethics regarding Mapping	Accuracy in explaining Project Management Life Cycle and Legislation and Ethics regarding Mapping	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion [2 x 50'] 3. Exercise [2 x 50']		Presidential Decree of the Republic of Indonesia Number 18 of 2000 concerning Guidelines for the Implementation of Procurement of Goods/Services LKPP Regulation Number 7 of 2018 concerning Guidelines for Planning Government Procurement of Goods/Services	10

4	Students are able to explain Organization of Survey and Mapping Work	Accuracy in explaining Organization of Survey and Mapping Work	 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [1 x 50'] 2. Discussion [1 x 50'] 3. Exercise [1 x 50']	Organization of Survey and Mapping Work	10
5 - 6	Students are able to explain the process of Terrestrial and Cadastral, Photogrammetry, Remote Sensing / GIS and Hydrographic mapping	Accuracy in explaining the process of Terrestrial and Cadastral, Photogrammetr y, Remote Sensing / GIS and Hydrographic mapping	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion [2 x 50'] 3. Exercise [2 x 50']	Process Stages Terrestrial and Cadastral, Photogrammetry, Remote Sensing, Hydrographic Mapping methods starting from Problem Identification, Methods, Tools, Applications and Results	20
7	Students are able to explain the Safety aspects in Survey and Mapping activities	Accuracy in explaining the Safety aspects in Survey and Mapping activities	 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [1 x 50'] 2. Discussion [1 x 50'] 3. Exercise [1 x 50']	Safety aspects in Survey and Mapping activities	10
8	Midterm Evaluation / Midterm	Exam				55
9	Students are able to understand the process of Project Planning	Accuracy in understanding the process of Project Planning	 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [1 x 50'] 2. Discussion [1 x 50'] 3. Exercise [1 x 50']	Project Planning Review papers / journals some examples of planning with the S curve	10
10 – 11	Students are able to understand the process of	Accuracy in understanding	1. Completeness of the material	1. Lecture [2 x 50'] 2. Discussion [2 x 50']	1. Project Scheduling and Monitoring	15

12 – 13	schedulling and monitoring a mapping project Students are able to create	the process of schedulling and monitoring a mapping project Accuracy in	Depth of explanation and effectiveness of communication Completeness of	3. Exercise [2 x 50'] 1. Lecture [2 x 50']	2. Implement Gantt Chart, CPM and PERT scheduling methods TOR / RKS for Survey	10	
12 - 13	and analyze TOR / RKS for Survey and Mapping work	making and analyzing TOR / RKS for Survey and Mapping work	the material 2. Depth of explanation and effectiveness of communication	2. Discussion [2 x 50'] 3. Exercise [2 x 50']	and Mapping work	10	
14	Students are able to understand the Survey and Mapping Work Tender Process	Accuracy in understanding the Survey and Mapping Work Tender Process	 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 50'] 2. Discussion [2 x 50'] 3. Exercise [2 x 50']	Observe and analyze tenders through Electronic Procurement Services (LPSE)	10	
15	Students are able to identify Project Management problems	Accuracy in identifying Project Management problems	 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 50'] 2. Discussion [2 x 50'] 3. Exercise [2 x 50']	Control and Quality Assurance of Mapping Survey Work	10	
16	16 Final Semester Evaluation / Final Semester Examination						