

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

Document Code

			SEMESTER	R LEARNING	PLAN (SLP)				
COURSE NAME		CODE COURSE GR		P	CREDITS (SKS)		SEMESTER	Date of	
									Preparation
Research Methodology			CM234734	-		T=2	P=0	7	-
AUTHORIZATION	AUTHORIZATION			SLP Developer		Course Group Coordinator		Head of Study Program	
			Dr. Filsa Bioresita, S.T	Г., М.Т.	-			Danar Guruh P. Ph.D.	ratomo, S.T., M.T.,
Learning Outcomes (LO)	Expected Learning Outcomes (ELO) that Imposed in the Course								
	ELO-8	being responsible for the work done.							
	ELO-11								
ELO-12 Able to apply the concepts of management, entrepreneurship, the latest technology-based innovation, sus environmentally wise.						n, sustainable, and			
	Course Le	earning Out	comes (CLO)						
	CLO-1	Able to compile scientific reports based on research steps that are in accordance with the topic or problem of the			of the Final Project				
	CLO-2	Able to be responsible to the community in solving engineering problems in the fields of geodesy, surveying, hydrography remote sensing, photogrammetry, geographic information systems, and cadastral in accordance with professional ethics							
	CLO-3	Able to carry out research in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, geograp information systems, and cadastral in a sustainable and environmentally sound manner.					metry, geographic		

	Matrix ELO-CLO								
	CLO	ELO-8	ELO-11	ELO-12					
	CLO-1	V							
	CLO-2		V						
	CLO-3			V					
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Course Description	This subject aims to equip students with knowledge, understanding and application of various research methods in the context of preparing a final project (TA). Lectures discuss various types of research, scientific research steps ranging from topic determination,								
		problem identification, literature review, problem focus, variable determination, design and methods, data collection techniques, analysis and conclusions. The writing in the proposal and TA book is the learning achievement of this course.							
Course Materials	1. Types of re		a 111 book is the learn	ing demovement of the	no course.				
		2. Research steps							
	4. Theoretical	4. Theoretical foundations and hypothesis formulation							
	6. Design and research methods								
	7. Data collection techniques								
		8. Proposal structure and Final Project (TA) report9. Presentation techniques							
D. C		n techniques I							
References	Main:	11 G	D	1 m 1 . 1	10 11 N 1 0 1				
		mik Geomatika ITS. 2013. Aturan							
		tor Penjaminan Mutu ITS. 2017. Panduan Tugas Akhir. Institut Teknologi Sepuluh Nopember. Surabaya on, Michael Quinn. 1990. Qualitative Evaluation and Research Methods (Second Edition). Sage Publications, Newbury Park,							
	3. Patton, Michael Quinn. 1990. Qualitative Evaluation and Research Methods (Second Edition). Sage Publications, Newbury Park, London, New Delhi.								
	4. Sukardi, 2004. Metodologi Penelitian Pendidikan, Percetakan Bumi Aksara. Jakarta.								
	Additional:		nan, r or octanan Bum	Tinburui junui tui					
		ı zwar, 1999, Metode Penelitian, Pe	ercetakan Pustaka Pela	aiar:Yogyakarta					
					/writing.colostate.edu/references				
Lecturer		× × ×		1 /	,				
Prerequisite	Practical Work								

Class/ Week	Lesson Learning Outcome (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 know and are able to explain the definition of Research Methodology		 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [1 x 45'] 2. Discussion [1 x 45']		Introduction to Research Methodology	
2-3	Students know and are able to explain the type of research		 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 45'] 2. Discussion [2 x 45']		Types of research	
4 – 5	Students know and are able to identify problems in research		 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 45'] 2. Discussion [2 x 45']		Identify the problem	
6-7	Students are able to make theoretical foundations and formulate hypotheses		 Completeness of the material Depth of explanation and effectiveness of communication 	1. Lecture [2 x 45'] 2. Discussion [2 x 45']		Theoretical foundations and hypothesis formulation	
8	Midterm Evaluation / Midterm	Exam					
9	Students know and are able to explain research variables		1. Completeness of the material	1. Lecture [1 x 45'] 2. Discussion [1 x 45']		Research variables	

		2. Depth of					
		explanation and					
		effectiveness of					
		communication					
10 – 11	Students know and are able	1. Completeness of	1. Lecture [2 x 45']	Design and research			
	to make designs and	the material	2. Discussion [2 x 45']	methods			
	research methods	2. Depth of					
		explanation and					
		effectiveness of					
		communication					
12	Students know and are able	1. Completeness of	1. Lecture [1 x 45']	Data collection			
	to explain data collection	the material	2. Discussion [1 x 45']	techniques			
	techniques	2. Depth of					
		explanation and					
		effectiveness of					
		communication					
13 – 14	Students know and are able	1. Completeness of	1. Lecture [2 x 45']	Proposal structure and			
	to compile proposals and	the material	2. Discussion [2 x 45']	Final Project (TA) report			
	Final Project reports	2. Depth of					
		explanation and					
		effectiveness of					
		communication					
15	Students know and are able	1. Completeness of	1. Lecture [1 x 45']	Presentation techniques			
	to perform presentation	the material	2. Discussion [1 x 45']				
	techniques	2. Depth of					
		explanation and					
		effectiveness of					
		communication					
16	Final Semester Evaluation / Final Semester Examination						