



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

Document Code

SEMESTER LEARNING PLAN (SLP)

COURSE NAME		CODE	COURSE GROUP	CREDITS (SKS)		SEMESTER	Date of Preparation
Participatory Mapping		CM234953	Surveying and Cadastral	T=2	P=0	Elective Course	-
AUTHORIZATION		SLP Developer		Course Group Coordinator		Head of Study Program	
		Dr. Filsa Bioresita, S.T., M.T.		Yanto Budisusanto, ST, M.Eng		Putra Maulida, ST, MT, Ph.D	
Learning Outcomes (LO)	Expected Learning Outcomes (ELO) that Imposed in the Course						
	ELO-7	Able to perform spatial data acquisition using modern measurement methods, geospatial data processing, using industry standard software, and making standard designs and analyzes in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, and cadastral.					
	ELO-10	Able to work in inter-disciplinary and inter-cultural teams so they can compete at national and international levels.					
	ELO-11	Able to be responsible to the community and adhere to professional ethics in solving technical problems in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, geographic information systems, and cadastral.					
	Course Learning Outcomes (CLO)						
	CLO-1	Students know and understand the normative legal basis of participatory mapping activities related to several uses in the field of surveys and mapping.					
	CLO-2	Students have knowledge about data problems in the form of participatory mapping results associated with sustainable development.					
	CLO-3	Students have experience making one type of activity product in the use of thematic data in institutions/agencies					
	CLO-4	Students are able to think critically about the use and management of measurement and mapping for planning and some life problems based on their understanding of the principles of the process of managing tool, human and cost resources.					
CLO-5	Students are able to express their ideas or ideas orally and in writing.						

		Matrix ELO – CLO			
		CLO	ELO-7	ELO-10	ELO-11
		CLO-1	v		
		CLO-2	v		
		CLO-3		v	v
		CLO-4		v	v
		CLO-5			v
Course Description	The purpose of this course is to introduce the concept of participatory mapping as an approach and system related to the direction and objectives of the One Map Policy program. This course will study the mapping problem as a tool to clarify community rights over land related to tenure issues or claims from outside parties such as companies that have licenses to use land. Mapping also aims to show the relationship between the community and the land, the history of the existence of the community in the area, showing where historical places are located. The participatory mapping process is expected to provide students with provisions to further open people's minds about the management of their area.				
Course Materials	<ol style="list-style-type: none"> 1. Definition and Concept of Participatory Mapping 2. Legal Basis and Problems 3. The Participatory Mapping Process 4. Design of Data Collection Methods 5. Boundaries and Their Problems 6. Map Problems in Indonesia 7. Village Map & Disaster Mitigation Map (Participatory) 8. Participatory Mapping with petakita.big.go.id 				
References	Main:				
		<ol style="list-style-type: none"> 1. Metode Pemetaan Partisipatif. 2015. Aliansi Masyarakat Adat Nusantara (AMAN) (http://aman.or.id) 2. Aplikasi Pemetaan Partisipatif. 2017. (https://petakita.big.go.id/) 3. Badan Informasi Geospasial (http://www.big.go.id/) 			
	Additional :				
		<ol style="list-style-type: none"> 1. CIFOR – Center for International Forestry Research Center for International Forestry Research (http://www.cifor.org/) 2. Jaringan Kerja Pemetaan Partisipatif (http://www.jkpp.org) 3. Rumah Iklim (http://rumahiklim.org) 			
Lecturer	1. Dr. Filsa Bioresita, S.T., M.T.				
Prerequisite	No Prerequisite				

Class/ Week	Lesson Learning Outcome (Sub-CLO)	Evaluation		Forms of Learning, Learning methods, Student Assignments/Task, [Estimated Time]		Learning Materials [References]	Weight (%)
		Indicators	Criteria and Form	Offline	Online		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students are able to explain the definition and meaning of Participatory Mapping		1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion [1 x 50']		•	10
2 – 3	Students are able to explain the legal basis and issues in Participatory Mapping	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion [1 x 50'] 3. Task [1 x 50']			10
4 – 5	Students are able to explain the Participatory Mapping process	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion [2 x 50']			10
6	Students are able to explain spatial and non-spatial data collection methods	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion, Task [1 x 50'] 3. Response/Exercise [1 x 50']			10
7	Students are able to identify geospatial problems in society	2.	3.	4.			10
8	Midterm Evaluation / Midterm Exam						50

9 – 10	Students are able to understand several examples of Participatory Mapping: Village Maps, Mitigation Maps, Indigenous Area Maps	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion, Task [1 x 50'] 3. Response [1 x 50']			20
11 – 12	Students are able to carry out participatory mapping activities with the community	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion, Task [1 x 50'] 3. Response/exercise [1 x 50']			10
13 – 14	Students are able to present participatory mapping results on the One Map Policy server (http://petakita.big.go.id)	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion, Task [1 x 50'] 3. Response/exercise [1 x 50']			10
15	Students are able to analyze the results of participatory mapping	1.	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion, Task [1 x 50']			10
16	Final Semester Evaluation / Final Semester Examination						100