



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

**Document  
Code**

**SEMESTER LEARNING PLAN (SLP)**

COURSE NAME		CODE	COURSE GROUP	CREDITS (SKS)		SEMESTER	Date of Preparation				
Land Management		CM235027	Survey and Cadastral	T=2	P=0	5	-				
AUTHORIZATION		SLP Developer		Course Group Coordinator		Head of Study Program					
		Yanto Budisusanto, S.T., M.Eng		Yanto Budisusanto, S.T., M.Eng		Putra Maulida, S.T., M.T., Ph.D.					
Learning Outcomes (LO)	Expected Learning Outcomes (ELO) that Imposed in the Course										
	ELO-6	Able to identify, formulate, analyze and solve problems in the fields of Geodesy and Surveying, Hydrography, Photogrammetry and Remote Sensing also Geographic Information Systems and Cadastral.									
	ELO-11	Able to be responsible to the community and adhere to professional ethics in solving technical problems in the fields of Geodesy and Surveying, Hydrography, Photogrammetry and Remote Sensing also Geographic Information Systems and Cadastral.									
	ELO-12	Able to apply the concepts of management, entrepreneurship, the latest technology-based innovation, sustainable, and environmentally wise.									
	Course Learning Outcomes (CLO)										
	CLO-1	Students are able to explain the concepts and principles of land management in the context of sustainable development supporting the economic, social and environmental fields (Land Management paradigm)									
	CLO-2	Students are able to explain the business process of procuring Base Maps to support the making of Spatial Plan Maps									
	CLO-3	Students are able to apply ways and methods of handling urban slums									
	CLO-4	Students are able to explain the technical aspects of land acquisition for public interest, along with its problems (constraints, obstacles, challenges and solutions)									
	CLO-5	Students are able to identify and design the provision of ready-to-live land (Real Esatate) from the point of view of the land sector (land rights, land value, land use and development)									
	CLO-6	Students are able to logically connect with the SDGs Goals program regarding land management policies in Indonesia									

		<b>Matrix ELO – CLO</b>			
		CLO	ELO-6	ELO-11	ELO-12
		CLO-1	V		
		CLO-2		V	
		CLO -3	V		
		CLO -4		V	V
		CLO-5		V	V
		CLO-6		V	
<b>Course Description</b>	In this course, students learn about the management of land resources related to land rights, especially land parcels, land value, land use, and development, so that they have a positive impact by studying the legal basis or regulations that apply in Indonesia so that steps can be taken towards improvements that support economic growth and sustainable development. The procurement of base maps for spatial planning is the first step in supporting planned and sustainable development. The development of areas for ready-to-occupy land is a step towards managing the status of land rights that can increase the value of land parcels and support the economic growth of the community. The control function of licencing for land utilisation and use in accordance with regional development plans or spatial plans is something that can ensure sustainable development. It also discusses land acquisition for the public interest as part of the problems, obstacles, challenges, and solutions of land development.				
<b>Course Materials</b>	<ol style="list-style-type: none"><li>1. Concept and understanding of land management (land management paradigm)</li><li>2. Procurement of Base Map to support the creation of Spatial Plan Map</li><li>3. Urban Slum Management</li><li>4. Land Acquisition for Public Interest</li><li>5. Identify and Design Ready for Habitable Land</li><li>6. The implementation of land policy in Indonesia is related to the support of the SDGs Goals program</li></ol>				
<b>References</b>	<b>Main:</b>	<ol style="list-style-type: none"><li>1. Enemark, Stig., 2005, Land Management and Development, CLGE International Conference 2005</li><li>2. Dewberry, Sydney O., 2008, Land Development Handbook : Planning, Engineering and Surveying, Courier Westford, Inc., USA</li><li>3. Johnson, E. David., 2008, Fundamentals of Land Development, John Wiley and Sons, New Jersey-Canada</li><li>4. Colley, Barbara C., 2005, Practical Manual of Land Development, McGraw-Hill Companies, Inc., USA</li></ol>			
	<b>Additional:</b>	<ol style="list-style-type: none"><li>1. <a href="http://fig.net/resources/articles_about_fig/gim-international/2006_01_GIM_enemark_0001.pdf">http://fig.net/resources/articles_about_fig/gim-international/2006_01_GIM_enemark_0001.pdf</a></li><li>2. <a href="https://www.fig.net/news/archive/news_2008/riaydh_april_2008/riyadh_enemark_april_2008.pdf">https://www.fig.net/news/archive/news_2008/riaydh_april_2008/riyadh_enemark_april_2008.pdf</a></li><li>3. <a href="https://www.fig.net/organisation/council/council_2007-2010/council_members/enemark_papers/enemark_havana_ppt.pdf">https://www.fig.net/organisation/council/council_2007-2010/council_members/enemark_papers/enemark_havana_ppt.pdf</a></li></ol>			

	4. <a href="http://www.fig.net/organisation/council/council_2007-2010/council_members/enemark_papers/StMalo_Enemark_Paper_June2006.pdf">http://www.fig.net/organisation/council/council_2007-2010/council_members/enemark_papers/StMalo_Enemark_Paper_June2006.pdf</a> 5. <a href="https://fig.net/organisation/comm/7/index.asp">https://fig.net/organisation/comm/7/index.asp</a>						
<b>Lecturer</b>	1. Yanto Budisusanto, S.T., M.Eng 2. Udiana Wahyu Deviantari, S.T., M.T.						
<b>Prerequisite</b>	Land Administration						
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 are able to explain the concept and understanding of the Land Management Paradigm	Accuracy provides an analogy to the concepts of land administration and management	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion and <i>Literature Review</i> [1 x 50']		1. Explanation of concepts and analogies 2. Discussion of examples in everyday life	5
2	Students are able to explain the position of Land Administration and Management	Accuracy provides examples of management implementation by the Indonesian government related to the administrative and land management components	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion and <i>Literature Review</i> [1 x 50']		1. Administration and Management Philosophy 2. Agencies involved in land 3. Land management problems 4. Overlapping interests in land plots	5

3	Students are able to explain the business process of procuring a Base Map to support the making of a Spatial Plan Map	Accurately describe the process of converting CSRT into a Base Map and its attestation procedure	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion and <i>Literature Review</i> [1 x 50'] 3. Task 1		1. CSRT for Spatial Map 2. Base Map for Spatial Map 3. Thematic Map for Spatial Map 4. SOP for obtaining recommendations from the Base Map for Spatial Maps	15
4 - 5	Students are able to explain the techniques and methods of identifying and analyzing slums and how to handle them	Accurately explain the use of CSRT to classify and spatially analyze slum locations and how to handle them	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion and Literature Review [1 x 50'] 3. Task 2		1. Slumber parameters 2. Participatory mapping in order to identify slum locations 3. Slum Map	10
6 - 7	Students are able to identify and analyze land acquisition problems for general importance (challenges and solutions)	Accuracy explains technical and non-technical aspects related to land parcels	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [1 x 50'] 2. Discussion and Literature Review [1 x 50'] 3. Task 3		1. Utilization of maps in the framework of planning stages 2. Analysis according to the components of the land parcel 3. Presentation of selected site planning results for specific cases	15
8	<b>Midterm Evaluation / Midterm Exam</b>						<b>50</b>
9 – 12	Students are able to identify and design land ready for habitation for residential areas	Accuracy in producing site plans	1. Completeness of the material 2. Depth of explanation and	1. Task 4 [4 x 2 x 50'] : • Selecting potential locations for housing, digitizing CSRT, analyzing selected locations in terms		1. Specify location (download CSRT) 2. Convert raster data to Vector	30

			effectiveness of communication	of land rights, land value, conformity with spatial plans and permits • Exercise in designing a Site Plan		3. Analysis according to the components of the land parcel 4. Design a site plan	
<b>13 - 14</b>	Students are able to explain the relationship between land management and the SDGs Goals program	Accurately explain land program support relevant to the SDGs Goals program	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lecture [2 x 50'] 2. Discussion [2 x 50']		1. Agrarian 2. UUCK 3. Complete Cadastral	10
<b>15</b>	Students are able to explain again related to the Land Management Paradigm comprehensively in Indonesia	Accuracy explains the role of geomatics science in supporting comprehensive land management (Land Rights, Land Value, Land Use and Development)	1. Completeness of the material 2. Depth of explanation and effectiveness of communication	1. Lectures and Discussions [1 x 50'] 2. Exercise [1 x 50'] 3. Task 5		1. Land Rights, Land Value, Land Use and Development	10
<b>16</b>	<b>Final Semester Evaluation / Final Semester Examination</b>						<b>100</b>