		SEMESTER LEARNING I	LAN			_				
		DEPARTMENT OF GEOMATICS ENGINEERING								
		FACULTY OF CIVIL, PLANNING, and GEO ENGINEERING								
PROGRA	M	UNDERGRADUATE								
COURSE	NAME	Land Information System			CODE	RM184955				
SEMESTI	ER	Elective Course			CREDITS	3 (three)				
LECTURERS		Agung Budi Cahyono (Coord)								
		Yanto Budisusanto, Udiana W. Deviantari								
		1 Land Information Syst								
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		3 Land Cadastre Data an	V AA							
COUDER	MATERIALS		= v - F - F v							
COURSE	MATERIALS	5 information Systems A								
		6 Land Information Syst								
		7 Information Systems A	7 Information Systems Application for Land Cadastre							
		8 Analysis of Land System Design								
		D Able to perform spatial data acquisition using modern measurement methods, geospatial data processing, using industry standard software, and making								
	ED LEARNING	standard designs and analyzes in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, and cadastral.								
	IES THAT IMPOSED IN	E Able to apply informat								
THE COURSE		* * *	remote sensing, photogrammetry, geographic information systems, and cadastral.							
			Students have knowledge of information systems concepts							
			2 Students have knowledge of the basic theories and methods of information systems for land							
COURSE	LEARNING OUTCOMES		·							
			Students have experience to make land cadastre applications with GIS							
			5 Students are able to present and analyze land information systems							
		Cognitive Prosecess	<u> </u>							
		Knowledge Domain								
ABILITY CATEGORIES		Psychomotor	Conscious c	Conscious control						
		Affective	Change of a	ttitude						
Class	Lesson learning outcome	Criteria dan Assessment Inc	icator Weight	Learning Materials	Learning Experience	Learning Methods	Estimated Time			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
-	Students are able to overlein			Pagia understanding of Information	Lecture	Teacher-centered learning	1 x 50'			
	Students are able to explain the basic principles and	Material completeness, depth of	of	Basic understanding of Information systems	Discussion	Student-centered	1 x 50'			

Class	Lesson learning outcome	Criteria dan Assessment Indicator	Weight	Learning Materials	Learning Experience	Learning Methods	Estima Time
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Students are able to explain the basic principles and concepts of Land Information Systems	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	5	Basic understanding of Information Systems Land Data Concepts Legal Foundation	Lecture	Teacher-centered learning	1 x :
1-2					Discussion	Student-centered learning	1 x :
					Practice	Problem-based learning	1 x :
	Students are able to explain the data needs for Land Information and Land Administration	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Relationship of Land Information System with Land Politics, Land Management, and Land Administration	Lecture	Teacher-centered learning	1 x :
3					Discussion	Student-centered learning	1 x 5
					Practice	Problem-based learning	1 x 5

	Students are able to explain	Material completeness don'the			Lecture	Teacher-centered learning	1 x 50'
4-5	the Model Land Database: Conceptual	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Relational Data Model Techniques Entity Relationship Technique	Discussion	Student-centered learning	1 x 50'
		Material completeness, depth of explanation, effectiveness of	20	DBMS Normalization Techniques: defining, creating, maintaining, and	Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered	1 x 50'
6					Discussion	Student-centered learning	1 x 50'
	Students are able to compile a Land Database	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Types of spatial land data Types of land textual data	Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered learning	1 x 50'
7					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
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8		T		Mid Semester Evaluation		Im 1 1	1 701
	Students are able to				Lecture	Teacher-centered learning	1 x 50'
9-10	understand the components of the Land Information	Material completeness, depth of explanation, effectiveness of	15	1. Lay out with CMS 2. Basics of programming languages (php, html) 3.	Discussion	Student-centered learning	1 x 50'
	System  Students are able to design a Land Information System	Material completeness, depth of explanation, effectiveness of	10	Map Service (map server, Stat Map)  1. Planning 2. Analysis 3. Design	Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered learning	1 x 50'
11-12					Discussion	Student-centered learning	1 x 50'
	Students are able to use the Land Information System	Material completeness, depth of explanation, effectiveness of	10	4. Development  Utilization of the CTF Application and GeoKKP	Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered learning	1 x 50'
13-14					Discussion	Student-centered learning	1 x 50'
	Students are able to analyze the Design of Land Systems	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Identify Understand Analyze	Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered learning	1 x 50'
15					Discussion	Student-centered learning	1 x 50'
		communication, accuracy of attitude		Report	Practice	Problem-based learning	1 x 50'
1.0				Final Semester Evaluation			
16	Tota						