		SEMESTER LEARNING PLAN									
		DEPARTMENT OF GEOMATICS ENGINEERING									
		FACULTY OF CIVIL, PLANNING, and GEO ENGINEERING									
PROGRAM		_	UNDERGRADUATE								
COURSE NAME		Introduction to Geospatial Information CODE RW184901									
SEMESTER		I (satu) CREDITS 2 (two)									
LECTURERS		Bangun Muljo Sukojo [coord]									
		Teguh Hariyanto									
		1	Definition, History and Development of Geospatial Information.								
COURSE MATER	RIALS	2	Geospatial Information Component.								
		3	Geospatial, Geospatial Information Scope.								
		4	Utilization of Geospatial Information			1					
EXPECTED LEARNING		E		Able to apply information & communication technology and the latest technological developments in the fields of geodesy, surveying, hydrographic,							
			remote sensing, photogrammetry, geographic information systems, and cadastral.								
OUTCOMES THAT IMPOSED IN THE COURSE		Н	Able to work in inter-disciplina	ary and inter-cu	altural teams so they can compete at nation	al and international levels					
		1	Able to understand the Definit	ion of Geospat	ial Information Lise of Geospatial Informa	tion Geospatial Informati	ion Canability History a	nd Farly			
		Able to understand the Definition of Geospatial Information, Use of Geospatial Information, Geospatial Information Capability, History and Early Development of Geospatial Information, Development of Geospatial Information in Indonesia, Implementation of Geospatial Information in Indonesia,									
		Geospatial Information, Development of Geospatial Information in Indonesia, Implementation of Geospatial Information in Indonesia, Geospatial Information Network Nodes, Network Node Types, Network Governance, Walidata and Owner, Integrated Geospatial Information									
		Architecture, Integration of the Node, Development of OpenSource-based IG Dissemination Technology, Palapa Architecture, Ina-Geoportal									
			Development, Problems and Challenges.								
		<u> </u>									
		2	Able to understand Geospatial Information Components: Hardware, Software, Data, Spatial Data, Non-Spatial Data (Attributes), Human, GIS Method.								
			Consistency.								
		3	Able to understand the scope of Geospatial Information: Geospatial Information Processes, Data Input, Data Manipulation, Data Management, Query								
COURSE LEARN	ING OUTCOMES		and Visualization Analysis Spatial Data Sources, Georefical Infrastructure Georeference Data, Geodetic Projection Systems, Remote Sensing, Topographic, GIS, WebGIS, Systems, Database Structural Sources, Geospatial Information Services (Ina-Geoportal), Ina-Geoportal network node structure, Geospatial Information Services Structure in Ina-Geoportal, International Standards (ISO), International Standards (ISO)								
			Information, Types of International Standards (ISO) Information Geospatial.								
		4	Able to understand Geospatial Information Utilization in Various Areas: Land Use Management, Natural Resource Inventory, Natural Disaster Areas,								
			Geospatial Information for Regional and Municipal Planning, Geospatial Information for Archeology, WebGIS Application, Web-based GIS for								
			Housing and Settlement Areas, WebGIS To Support Regional Spatial Planning, WebGIS for Main Data on City Development, WebGIS for								
			Archaeologists, Making Archaeological Geospatial Information, WebGIS Attribute Data Processing, WebGIS Based Tourism, Analysis of Web GIS								
			Tourism Making, Analysis of Results for Defining Map Configurations, WebGIS-based Marine.								
ABILITY CATEGORIES		Cognitive Prosecess		Analyse							
		Knowledge Domain		Procedural							
		Psychomotor		Conscious control							
		Affective		Change of attitude							
Class Lesso	on learning outcome	Crite	eria dan Assessment Indicator	Weight	Learning Materials	Learning Experience	Learning Methods	Estimated			
21000				518		Emperience		Time			

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1 1010 to dilacistana the		5	Explain the Definition of Geospatial Information, Use of Geospatial Information, Geospatial Information Capability Explain the History and Early Development of Geospatial Information, Explaining the Development of Geospatial Information in Indonesia, Organizing Geospatial Information in Indonesia,	Kuliah	Teacher-centered learning	1 x 50'
	Geospatial Information Capability, History and Early				Kuliah	Teacher-centered learning	1 x 50'
	Development of Geospatial Information, Development of Geospatial Information in Indonesia, Organization of Geospatial Information in Indonesia				Lectures	Teacher-centered learning	1 x 50'
2	2 Able to understand Geospatial Information Network Nodes, Network	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	5	Nodes, Network Node Types, Data Node Network Governance Explain Walidata and Owners, Integrated Geospatial Information Architecture, Explain the Integration of the Implementation of Nodes Examples of actual case studies	Lectures	Teacher-centered learning	1 x 50'
	Node Types, Data Node Governance, Walidata and				Lectures	Teacher-centered learning	1 x 50'
	Owners, Integrated Geospatial Information Architecture, Integration of Node Operations				Lectures	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
3	Able to understand the Development of IG	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Palapa Architecture, Explaining about Ina-Geoportal Development,	Lectures	Teacher-centered learning	1 x 50'
	Dissemination Technology based on Open Source, Palapa Architecture, Ina- Geoportal Development,				Lectures	Teacher-centered learning	1 x 50'
					Lectures	Teacher-centered learning	1 x 50'
	Problems and Challenges			Explain the problems and challenges.	Lectures	Teacher-centered learning	1 x 50'
					Practice and assignment	Student-centered learning	1 x 50'
4 -5	Geospatial Information expla	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Explain the Geospatial Information Component	Lectures	Teacher-centered learning	2 x 50'
				Explain Geospatial Information Hardware	Lectures	Teacher-centered learning	2 x 50'
(Software),	(Software),			Explain about Geospatial Information Software	Lectures	Problem-based learning	2 x 50'
					Practice and assignment	Student-centered learning	1 x 50'
6	Able to understand Geospatial Information	Material completeness, depth of explanation, effectiveness of	10	Explain the Geospatial Information Component: Data	Lectures	Teacher-centered learning	1 x 50'
	Components: Data, Spatial Data, Non Spatial Data	communication, accuracy of attitude		Explain the Components of Geospatial Information: Spatial Data	Lectures	Teacher-centered learning	1 x 50'

	(Attributes)	1 1		Explain the Geospatial Information	Lectures	Teacher-centered	1 x 50'
	(Attributes)			Component: Non Spatial Data	Lectures	learning	1 X 30
				Component. Non Spatial Data	Practice and assignment	Student-centered	1 x 50'
					Tractice and assignment	learning	1 1 20
7	Able to understand	Material completeness, depth of	10	Explain the Geospatial Information	Lectures	Teacher-centered	1 x 50'
'	Geospatial Information	explanation, effectiveness of	10	Component: Humans	Lectures	learning	1 1 30
	Components: Human, GIS	communication, accuracy of attitude		Explain Geospatial Information	Lectures	Teacher-centered	1 x 50'
	Method, Consistency.	definition, accuracy of activate		Components: GIS Method, Consistency.		learning	1.120
	Wethou, consistency.			Explain the Geospatial Information	Lectures	Teacher-centered	1 x 50'
				Component: GIS Method	20000103	learning	1.120
					Project assignment	Student-centered	
					J	learning	
8				MID SEMESTER EXAM		S	
9 -10	Able to understand	Material completeness, depth of	15	Explain the Scope of Geospatial		Teacher-centered	2 x 50'
	Geospatial Information	explanation, effectiveness of		Information: Geospatial Information		learning	
	Scope: Geospatial	communication, accuracy of attitude		Processes, Data Input	Lectures	Č	
	Information Process, Data			Explain the Scope of Geospatial		Teacher-centered	2 x 50'
	Input, Data Manipulation,			Information Data Manipulation: Data		learning	
	Data Management, Query			Management, Queries and Visualization		Č	
	and Visualization Analysis			Analysis	Lectures		
					Discussion	Problem-based learning	2 x 50'
					Practice and assignment	Student-centered	2 x 50'
						learning	
11	Able to understand Spatial	Material completeness, depth of	10	Explain the Spatial Data Sources,		Teacher-centered	2 x 50'
	Data Sources, Geo-structure	explanation, effectiveness of		Geodesy Infrastructure Georeference		learning	
	Infrastructure Georeference	communication, accuracy of attitude		Data, Geodesy Projection Systems,			
	Data, Geodesy Projection			Remote Sensing, Toponymy	Lectures		
	Systems, Remote Sensing,			Explain GIS, WebGIS, Systems, Database		Teacher-centered	2 x 50'
	Toponymy, GIS, WebGIS,			Structures	Lectures	learning	
	Systems, Database					Problem-based learning	2 x 60'
	Structures,				Discussion		
					Practice and assignment		
						Student-centered learning	g
12 - 13	Able to understand	Material completeness, depth of	15			Teacher-centered	1 x 50'
	Geospatial Information	explanation, effectiveness of		Explain Geospatial Information Services		learning	
	Services (Ina-Geoportal),	communication, accuracy of attitude		(Ina-Geoportal), Ina-Geoportal network			
	Ina-Geoportal network node			node structure, Geospatial Information			
	structure, Geospatial			Services Structure in Ina-Geoportal	Lectures		
	Information Services			Explain International Standards (ISO),	Lectures	Student-centered	1 x 50'
	Structure in Ina-Geoportal,			International Standards (ISO) Geospatial		learning	1 A JU
	International Standards			Information, Types of International		icai iiiig	
	(ISO), International				Discussion		
	Standards (ISO) Geospatial			Standards (150) Geospatiai information	Assignment	Problem-based learning	1 x 60'
	Information, Types of				7 Iooigiiiiciit	1 Toolem-based learning	1 7 00
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14	Able to understand	Material completeness, depth of		Information in Various Fields: Land Use		Teacher-centered	1 x 50'
	_	explanation, effectiveness of	5	Management, Natural Resource	Lectures	learning	
		communication, accuracy of attitude		Explain the Utilization of Geospatial		Teacher-centered	1 x 50'
	Land Use Management,			Information in Various Fields: WebGIS		learning	
	Natural Resource Inventory,			Application, Web-based GIS for Housing			
	Natural Disaster Areas,			and Settlement Areas, WebGIS To			
	Geospatial Information for			Support Regional Spatial Planning,			
	Regional and Municipal			WebGIS For Main Data on Urban			
	Planning, Geospatial			Development, WebGIS for			
	Information for Archeology,			Archaeologists,	Lectures		
	WebGIS Application, Web-					Student-centered	1 x 50'
	based GIS for Housing and				Discussion	learning	
	Settlement Areas, WebGIS				Assignment	Student-centered	1 x 50'
	To Support Regional Spatial					learning	
15	Able to understand the	Material completeness, depth of		Explaining the Utilization of Geospatial		Teacher-centered	1 x 50'
	Utilization of Geospatial	explanation, effectiveness of		Information in WebGIS Attribute Data		learning	
	Information in Data	communication, accuracy of attitude	5	Processing,	Lectures		
	Processing of WebGIS			Analyzing the Utilization of Geospatial		Teacher-centered	1 x 50'
	Attributes, WebGIS-Based			Information in WebGIS-Based Tourism		learning	
	Tourism, Analysis of GIS			Data Processing, Analysis of Making GIS			
	Web-Making Tourism,			Tourism Web, Analysis of the Results of			
	Analysis of the Results of			Defining Map Configuration, Marine-			
	Defining Map Configuration,			based WebGIS	Lectures		
	Marine-based WebGIS					Student-centered	1 x 50'
					Practice	learning	
					Assignment	Student-centered	1 x 50'
						learning	
16			100	FINAL SEMESTER EXAM			
TOTAL	TOTAL						