	SEMESTER LEARNING PLAN **DEPARTMENT OF GEOMATICS ENGINEERING** **FACULTY OF CIVIL, PLANNING, and GEO ENGINEERING**			
PROGRAM	**UNDERGRADUATE**			
COURSE NAME	**Management of Survey and Mapping**		**CODE**	**RM184730**
SEMESTER	**VII (seven)**		**CREDITS**	**3 (three)**
LECTURERS	**Muhammad Taufik (Coord)**			
	Khomsin, Akbar Kurniawan			
COURSE MATERIALS	1	Introduction to Mapping Survey Management		
	2	Legislation and Ethics on Mapping		
	3	Terrestrial and Land Mapping Project Management		
	4	Project Management of Photogrammetry Mapping and Remote Sensing		
	5	Project Management Mapping Hydrographic SurveysSurvey and Mapping Work Organization		
	6	Surveying and Mapping Work Organization		
	7	Control and Quality Assurance of Mapping Survey Work		
	8	Project Planning, Scheduling and Monitoring		
	9	TOR / RKS for Survey and Mapping work		
	10	The Tender Process for Survey and Mapping Work		
	11	K3 aspects in Survey and Mapping activities		
EXPECTED LEARNING OUTCOMES THAT IMPOSED IN THE COURSE	B	Able to design survey and mapping activities using the latest technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.		
	D	Able to identify, formulate, analyze and solve problems in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.		
	C	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.		
	J	Able to apply the concepts of management, entrepreneurship, the latest technology-based innovation, sustainable and environmentally sound.		
COURSE LEARNING OUTCOMES	1	Students have knowledge of the main objectives of project management science.		
	2	Students have knowledge of the basic theories and methods of project measurement.		
	3	Students have experience to do financial calculations in mapping work.		
	4	Students are able to think critically about the use and management of measurements and mapping for planning and some life problems based on their und		
	5	Students are able to express their ideas orally and in writing.		
ABILITY CATEGORIES	*Cognitive Prosecess*	*Analyse*		
	Knowledge Domain	*Procedural*		
	Psychomotor	*Conscious control*		

	Affective	*Change of attitude*

Class	Lesson learning outcome	Criteria dan Assessment Indicator	Weight	Learning Materials	Learning Experience	Learning Methods	Estimated Time
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students are able to explain the definition and understanding of Management and Project	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	5	Management Concepts Mapping Method Review	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
2-3	Students are able to explain the foundation and problems of Project Management	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Decree of the President of the Republic of Indonesia Number 18 Year 2000 Regarding Guidelines for the Implementation of Procurement of Goods / Services LKPP Regulation No. 7 of 2018 concerning Guidelines for Planning Procurement of Government Goods / Services	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
4-5	Students are able to explain the process of Terrestrial Mapping, Cadastre, Photogrammetry	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Process Stages Mapping Terrestrial, Cadastral, Photogrammetric methods from Identifying Problems, Methods, Tools, Applications and Results	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
6	Students are able to explain the Remote Sensing / GIS and Hydrographic mapping method	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	20	Process Stages of Mapping method of GIS, Remote Sensing, Hydrographic starting Methods, Tools, Applications and Results	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
					Lecture	Teacher-centered learning	1 x 50'

7	Students are able to identify Project Management problems	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Control and Quality Assurance of Mapping Survey Work	Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
8	Evaluasi Tengah Semester						
9-10	Students are able to understand the process of planning a mapping project with the S Curve	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	15	Review papers / journals of several planning examples with the S curve	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
11-12	Students are able to understand the process of mapping project scheduling methods using Gantt Chart, CPM and PERT	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Implement the scheduling of the Gantt Chart, CPM and PERT methods	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
13-14	Students are able to create and analyze TOR / RKS for Survey and Mapping work	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Observe and analyze tenders through Electronic Procurement Services (LPSE)	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
15	Students are able to analyze mapping project planning based on K3	Material completeness, depth of explanation, effectiveness of communication, accuracy of attitude	10	Map analysis based on the needs of the community, organization and government	Lecture	Teacher-centered learning	1 x 50'
					Discussion	Student-centered learning	1 x 50'
					Practice	Problem-based learning	1 x 50'
16	Evaluasi Akhir Semester						
Jumlah			100				