



SEMESTER LEARNING PLAN
DEPARTMENT OF GEOMATICS ENGINEERING
FACULTY OF CIVIL, PLANNING, and GEO ENGINEERING

PROGRAM	UNDERGRADUATE		
COURSE NAME	Final Project	CODE	RM184831
SEMESTER	VIII (eight)	CREDITS	6 (six)
LECTURERS	Hepi Hapsari Handayani [koord]		
COURSE MATERIALS	1	The standard for surveying and mapping both the Indonesian National Standard (SNI) from the National Standardization Agency (BSN) and the International Organization for Standardization (ISO) eg SNI 8473: 2018 on Surveying and Mapping of Semidetail Land with a scale of 1: 50,000, SNI ISO 19111_2011 on Geographic Information - Spatial Reference with Coordinates, SNI Surta Number RSNI3 7657: 2010 concerning Hydrographic Survey, SNI Surta Number SNI_19-7149 of 2005 concerning Gravity Control Networks, and others.	
	2	Application of information & communication technology in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, geographic information systems, and cadastral in conducting research.	
	3	Application of calculation methods related to the topic of the final project, study and evaluation of results and the research process to solve the problem.	
	4	Making research reports ranging from the preparation of research designs, implementation of research to study and evaluation.	
	5	Presentation of the results of the final project responsibly in seminar forums and hearings.	
EXPECTED LEARNING OUTCOMES THAT IMPOSED IN THE COURSE	D	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.	
	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.	
	F	Able to compile scientific reports and provide solutions based on leadership, creativity and communication skills as well as being responsible for the work done.	
	G	Able to plan, perform and evaluate the process of surveying and mapping activities using the latest technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.	
	H	Able to work in inter-disciplinary and inter-cultural teams so they can compete at national and international levels.	
COURSE LEARNING OUTCOMES	I	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.	
	1	Able to formulate the research problems and make a designs in survey and mapping activities based on certain Indonesian National Standards (SNI) stand	
	2	Able to carry out research by applying information & communication technology in the fields of geodesy, surveying, hydrographic, remote sensing, phot	
	3	Able to carry out quantitative and qualitative evaluations, draw clear conclusions and recommend the results of research to the interested parties from va	
	4	Able to make research reports ranging from the preparation of research designs, implementation of research to study and evaluation.	
ABILITY CATEGORIES	5	Being able to present the results of the final project responsibly in a seminar forum and defend it in an oral examination in front of examers team.	
		<i>Cognitive Prosecess</i>	<i>Analyse</i>
		<i>Knowledge Domain</i>	<i>Procedural</i>
		<i>Psychomotor</i>	<i>Conscious control</i>
	<i>Affective</i>	<i>Change of attitude</i>	

Class	Lesson learning outcome	Criteria dan Assessment Indicator	Weight	Learning Materials	Learning Experience	Learning Methods	Estimated Time
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Able to formulate research problems and make designs in survey and mapping activities based on certain Indonesian National Standards (SNI) standards from the National Standardization Agency (BSN) and the International Organization for Standardization (ISO).	Accuracy in formulating research problems and making designs in survey and mapping activities based on certain Indonesian National Standards (SNI) standards from the National Standardization Agency (BSN) and the International Organization for Standardization (ISO).	20%	Indonesian National Standard (SNI) from the National Standardization Body (BSN) and the International Organization for Standardization (ISO) for survey and mapping activities	Formulation of research and design design problems	Structured learning and independent learning	16x(6x50')
2	Able to apply information & communication technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, geographic information systems, and cadastral in the conduct of final project research.	Accuracy in applying information & communication technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, geographic information systems, and cadastral in the implementation of final project research.	20%	Information & communication technology in the fields of geodesy, surveying, hydrography, remote sensing, photogrammetry, geographic information systems, and cadastre	Research implementation	Structured learning and independent learning	
3	Able to carry out quantitative and qualitative evaluations, draw clear conclusions and recommend the results of research to interested parties from various sectors and fields with the solution of the problem.	Accuracy in quantitative and qualitative evaluation, and drawing clear conclusions.	20%	The application of calculations and theories for quantitative and qualitative evaluation and in drawing clear conclusions.	Quantitative and qualitative evaluation and conclusion drawing	Structured learning and independent learning	
4	Able to make research reports ranging from the preparation of research designs, implementation of research to study and evaluation.	Timeliness in completing the final project research report	20%	Final project research report	Preparation of reports	Structured learning and independent learning	
5	Being able to present the results of the final project responsibly in a seminar forum and defend it in an oral examination in front of a team of examiners.	Smoothness and accuracy in presenting the results of the final project research	20%	Presentation of research results	Presentation	Structured learning and independent learning	
TOTAL							16x(6x50')