



UNIVERSITAS PENDIDIKAN INDONESIA

SEMESTER LEARNING PLAN (RPS)

COURSE INFORMATION

Course Name	Course Code	Credits	Workload	Course Group	Semester	Prerequisite Course	Date of Issue
FIELD WORK II	SA406	2	90	Compulsory Course	4		2025-09-09 11:26:56

Prepared by	Reviewed by	Approved by
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COURSE DESCRIPTION AND LEARNING OUTCOMES

Course Description	Geographic Information Science Measurement Field Work is a compulsory course for second-year students of the SaIG study program, covering Geographic Information Science measurement competencies in Cartography, Remote Sensing, Regional Mapping Surveys, and GIS, with the aim of producing multi-scale base maps and thematic base maps in accordance with the standards of the Geospatial Information Agency (BIG). Base maps include administrative maps, road network maps, topographic maps, and slope maps. Thematic base maps include rainfall maps, population density maps, mineral distribution maps, agricultural product maps, and geological maps, presented in an integrated manner as a representation of human-environment interactions in a specific region. This course carries two credits, comprising face-to-face sessions, independent laboratory activities, and field visits. Face-to-face sessions cover types of base maps and thematic base maps, image acquisition, toponym surveys, and (Ground Control Point) and activities (Independent Control Point). Field activities include (Independent Control observation, measurement, interviews, and mapping.		
Program Learning Outcome Assigned in the Course	1	Demonstrating religious Field and behavior, upholding humanistic values, embodying the spirit of Pancasila, having patriotism, environmental awareness, and demonstrating responsibility toward work and field of expertise independently.	
	2	Capable of mastering the theoretical concepts of the types of base maps, thematic base maps, image acquisition, base maps, image acquisition, base maps, image acquisition, toponym surveys, and (Ground Control Point) and activities	
	3	Capable of applying logical, critical, systematic, and innovative Field in the context of developing or implementing knowledge and technology that observes Field humanistic values in accordance with the relevant field of expertise	
	4	Capable of making well-informed decisions in the context of problem-solving within the field of expertise, based on the results of information and data analysis	
	5	Capable of managing learning independently	
	6	Capable of designing, developing, producing, utilizing, utilizing, managing, and evaluating analytical models Field theories of geospatial information based on science and technology.	
Course Learning Outcome (CPMK)	1	Students are able to conduct Toponym Surveys	
	2	Students are able to conduct GCP (Ground Control Point).	
	3	Students are able to conduct ICP (Independent Control Point).	
	4	Students are able to produce base maps	
	5	Students are able to produce thematic base maps	
	6	Students are able to perform image acquisition	
Sub-CRITERIA	1	CPMK - 1	Identifying and documenting geographic names accurately through interviews and field observation.
	2	CPMK - 2	Collecting ground control points using high-precision GPS instruments for map georeferencing.
	3	CPMK - 3	Verifying the spatial accuracy of maps by comparing independent control points from field observation.

	4	CPMK - 4	Processing spatial data to produce administrative, road network, topographic, and slope maps in accordance with BIG standards.
	5	CPMK - 5	Interpreting and visualizing thematic data such as rainfall, population density, and others in the form of georeferencing.
	6	CPMK - 6	Downloading, processing, and preparing satellite imagery for base and thematic mapping analysis.
Course Materials	1	Introduction	
	2	Toponym Surveys	
	3	Ground Control Point (GCP)	
	4	ICP (Independent Control Point).	
	5	Base Map	
	6	Thematic Base Map	
	7	Image Acquisition	
	8	Midterm Examination (Midterm)	
	9	Base Maps and Thematic Base Map	
	10	Exposition	
	11	Final Examination (Final)	
Learning outcomes demonstrated at the end of the course *)	Students are able to produce image acquisition, maps Field thematic maps upholding accordance with BIG standards, using analysis analysis upholding and laboratory analysis. and		
Learning Strategy		Case Method	
	✓	Team based Project	
		Other	
Learning Stages	Learning commences with face-to-face sessions covering fundamental concepts of Cartography, Remote Sensing, Regional Mapping Surveys, and GIS. Students are introduced to the types of base and thematic maps, as well as image acquisition methods, toponym surveys, GCP, and ICP. Subsequently, students conduct independent laboratory activities to process spatial data and produce maps in accordance with BIG standards. Field visits include direct observation, measurement, interviews, Field field data analysis and map validation. georeferencing. and field Field analysis and analyzed to map produce base and thematic maps illustrating human-environment interactions.		
References	1	Mutakin, A. (1996). Toponym or Nominal Location (An Early Method of Describing the Characteristics of Places on the Earth's Surface). Bandung.	

2	James, M. R., Robson, S., d'Oleire-Oltmanns, S., & Niethammer, U. (2017). Optimising UAV topographic surveys processed with structure-from-motion: Ground control quality, quantity and bundle adjustment. <i>Geomorphology</i> , 280, 51–66. https://doi.org/10.1016/j.geomorph.2016.11.021
3	Cramer, M., Stallmann, D., & Haala, N. (2001). Direct georeferencing using GPS/Inertial exterior orientations for photogrammetric applications.
4	Robinson, A. (1989). Cartography as an art. In D. Rhind & D. Taylor (Eds.), <i>Cartography Past, Present and Future: A Festschrift for F. J. Ormeling</i> . London: Elsevier Applied Science Publishers.
5	Monmonier, M., & MacEachren, A. (1992). Special content: Geographic visualization. <i>Cartography and Geographical Information Systems</i> , 19(4)
6	INCA Study Group. (1994). Satellite for mapping: Requirements, analysis, sensor specifications, analysis processing. Report submitted to the National Organising Committee, 14th Congress, Indian National Cartographic Association, November 1994.
7	Rundstrom, R. (1991). Mapping, postmodernism, indigenous people and the changing direction of North American cartography. <i>Cartographica</i> , 28(2), 1-12.

LEARNING PLAN

Week -	Sub-CRITERIA	Learning Indicator	Course Material	Assessment		Learning Method		Duration (hours)	Reference	Access Time
				Assessment Methode (test/non-test)	Assessment Weighting (%)	Synchronous	Asynchronous			
1	Identifying and documenting geographic names accurately through interviews and field observation.	Introduction	Introduction	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	1	05-02-2025 08:00
2	Identifying and documenting geographic names accurately through interviews and field observation.	Students are able to conduct Toponym Surveys	Toponym Survey	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	1	12-02-2025 08:00
3	Collecting ground control points using high-precision GPS instruments for map georeferencing.	Students are able to conduct Ground Control Point (GCP) surveys	Ground Control Point (GCP) surveys	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	2	19-02-2025 08:00
4	Performing spatial accuracy verification of maps by comparing independent control points laboratory analysis observation.	Students are able to conduct ICP (Independent Control Point).	activities (Independent Control Point).	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	3	25-02-2025 08:00
5	Processing spatial data to produce administrative, road network, topographic, and slope maps with accordance with BIG standards.	Students are able to produce Base Map	Base Map	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	4	05-03-2025 08:00

Week -	Sub-CRITERIA	Learning Indicator	Course Material	Assessment		Learning Method		Duration (hours)	Reference	Access Time
				Assessment Method (test/non-test)	Assessment Weighting (%)	Synchronous	Asynchronous			
6	Processing spatial data to produce administrative, road network, topographic, and slope maps with accordance with BIG standards.	Students are able to produce Base Base Map	Base Base Map	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	5	12-03-2025 08:00
7	Processing spatial data to produce administrative, road network, topographic, and slope maps with accordance with BIG standards.	Students are able to conduct image acquisition, acquisition	Image Acquisition	Participatory	5	Face-to-face	Searching for sources relevant to the course and oral tests	2 x 50	6	19-03-2025 08:00
8	Midterm Examination				15					24-03-2025 08:00
9	Identifying and documenting geographic names accurately through interviews and field observation.	Students are able to compile base maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	02-04-2025 08:00
10	Interpreting and visualizing analysis data such as rainfall, population density, and others as maps.	Students are able to compile base maps maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	09-04-2025 08:00
11	Interpreting and visualizing analysis data such as rainfall, population density, and others as maps.	Students are able to compile base maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	16-04-2025 08:00
12	Interpreting and visualizing analysis data such as rainfall, population density, and others as maps.	Students are able to compile base maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	23-04-2025 08:00

Week -	Sub-CRITERIA	Learning Indicator	Course Material	Assessment		Learning Method		Duration (hours)	Reference	Access Time
				Assessment Method (test/non-test)	Assessment Weighting (%)	Synchronous	Asynchronous			
13	Interpreting and visualizing analysis data such as rainfall, population density, and others as maps.	Students are able to compile base maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	28-04-2025 08:00
14	Interpreting and visualizing analysis data such as rainfall, population density, and others as maps.	Students are able to compile base maps Field thematic base maps	Base Map and Thematic Base Map	Participatory	5	Face-to-face	Practicum	2 x 50	7	07-05-2025 08:00
15	Processing spatial data to produce administrative, road network, topographic, and slope maps with accordance with BIG standards.	Students are able to present (exposition of) their findings according to their group	Exposition	Participatory	5	Face-to-face	Practicum	2 x 50	7	14-05-2025 08:00
16	Final Examination				15					21-05-2025 08:00

STUDENT LEARNING TIME (WORKLOAD)

	ACTIVITIES	SYNCHRONOUS (Face-to-Face / Virtual Meeting)	ASYNCHRONOUS (Structured / Independent)	STUDENT LEARNING PREPARATION	TOTAL STUDENT LEARNING AND INSTRUCTION TIME
LEARNING	Lectures/Responses/Tutorials	14 x 90 minutes = 1260 minutes	-x-	-x-	1260 minutes (21.0 hours)
	Project-based learning	-x-	8 x 90 minutes= 720 minutes	8 x 30 minutes= 240 minutes	960 minutes (16.0 hours)
	Discussion (case-based learning)	8 x 60 minutes= 480 minutes	-x-	8 x 30 minutes= 240 minutes	720 minutes (12.0 hours)
	TOTAL				2940 minutes (49.0 hours)
ASSESSMENT	Continuous Assessment				
	Participation During Learning	16 x 60 minutes= 960 minutes	-x-	-x-	960 minutes (16.0 hours)
	Project Completion	-x-	8 x 90 minutes= 720 minutes	-x-	720 minutes (12.0 hours)
	Assignments	-x-	8 x 60 minutes= 480 minutes	-x-	480 minutes (8.0 hours)
	Quizzes	4 x 30 minutes= 120 minutes	-x-	-x-	120 minutes (2.0 hours)
	Formative				90 minutes (1.5 hours)
	Summative				90 minutes (1.5 hours)
	TOTAL				2460 minutes (41.0 hours)
TOTAL WORKLOAD					5400 minutes (90 hours)
TOTAL IDEAL HOURS					90 Hours
CREDITS					2
CONFORMITY WITH THE NUMBER OF CREDITS					APPROPRIATE

CPMK ASSESSMENT CRITERIA

CPMK Assessment Criteria Data Not Yet Available

COLLABORATIVE ASSIGNMENT DESIGN

Collaborative Assignment Details Not Yet Available