



UNIVERSITAS PENDIDIKAN INDONESIA

SEMESTER LEARNING PLAN (RPS)

COURSE IDENTITY

Course Name	Course Code	Credits	Workload	Course Group	Semester	Prerequisite Course	Date of Issue
CONSULTANCY PROJECT	PT502	4	180	Compulsory Course	5		2025-09-09 11:26:56

Prepared by Course Lecturer	Reviewed by Study Programme QA Team	Approved by Head of Study Programme
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COURSE DESCRIPTION AND GRADUATE LEARNING OUTCOMES (CPL)

Course Description	The Consultancy Project course is a compulsory course for students of Geographic Information Science. This course is designed to train students to become part of the solution for the world of work, industry, government agencies, and/or specific community groups. The course will be conducted online or offline, either on campus or at partner locations, in accordance with the conditions and schedule established for the course. Through this course, students of Geographic Information Science are expected to channel their ideas, creativity, and knowledge in order to produce breakthroughs that can be used to address problems encountered by their partners.
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Graduate Learning Outcomes (CPL) Assigned to This Course	
1	To demonstrate religious attitudes and behaviours, to uphold human values, to embody the spirit of Pancasila, to express love for the nation, to demonstrate concern for the environment, and to be accountable for one's work and field of expertise independently.
2	To be capable of mastering the concepts and practices of geospheric problem-solving in specific regions using geospatial information technology.
3	To be capable of applying logical, critical, systematic, and innovative thinking within the context of the development or implementation of knowledge and technology, while observing and applying humanistic values in accordance with the field of expertise.
4	To be capable of making appropriate decisions in the context of problem-solving within the field of expertise, based on the results of information and data analysis.
5	To be capable of managing one's own learning independently.
6	To be capable of designing, developing, producing, utilising, controlling, and evaluating models of analysis and geospatial information theory based on science and technology.

Course Learning Outcomes (CPMK)	
1	Students are able to conduct a situational analysis.
2	Students are able to identify problems encountered by the partner.
3	Students are able to collect data and information pertaining to the partner.
4	Students are able to compose a written document and/or design a product as a solution to the partner's problems.
5	Students are able to conduct a hypothesis analysis test or a feasibility assessment of the work to be proposed.
6	Students are able to present the outcomes of their work, whether in the form of a written document or a product to be used by the partner.

Sub-CPMK		
1	CPMK - 1	Students are able to conduct observation and evaluation of the situational and field conditions encountered by the partner.
2	CPMK - 2	Students are able to identify and define the main problems encountered by the partner through data analysis and interviews.
3	CPMK - 3	Students are able to design a relevant data collection method in order to obtain accurate information regarding the partner's conditions.

4	CPMK - 4	Students are able to design an innovative solution concept based on the results of the problem analysis conducted.
5	CPMK - 5	Students are able to design and implement a feasibility test or hypothesis test of the proposed solution in order to assess its effectiveness.
6	CPMK - 6	Students are able to compose a comprehensive and engaging presentation in order to convey the outcomes of their work to the partner.

Course Materials	
1	Introduction
2	Group Formation and preparation of a cooperation agreement letter with the partner/agency
3	Needs analysis of the community/agency/institution in relation to Geographic Information Science
4	Preparation of instruments and field survey of community/agency needs in relation to GIS
5	Identification and formulation of needs, and determination of the types of consultancy activities in the field of GIS
6	Practice in preparing a Terms of Reference (ToR)
7	Implementation of the Consultancy Project
8	Preparation of the written report on the implementation of the Consultancy Project
9	Presentation
10	Reflection and Evaluation

Demonstrable Learning Outcomes at the End of the Course	At the conclusion of the course, students are expected to demonstrate the ability to identify problems and design innovative solutions that are relevant to the partner's needs. Students will produce a final deliverable in the form of a comprehensive consultancy project report, encompassing a problem analysis, proposed solutions, and an evaluation of the implementation outcomes. This report will be supported by a project presentation to the partner, demonstrating students' capacity to communicate professionally, work effectively in teams, and apply Geographic Information Science to resolve real-world problems. Evidence of these achievements will take the form of project documentation, the partner's evaluation results, and feedback from the teaching team.
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Learning Strategy	Team-based Project
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Learning Steps	The Consultancy Project course is designed to provide students with practical experience in applying Geographic Information Science (GIS) in the professional world, industry, government agencies, or community settings. Learning is conducted through the team-based project method, enabling students to work in teams to address real problems encountered by partner organisations. The learning process encompasses problem identification, creative brainstorming, the design of GIS-based solutions, and the implementation and evaluation of the project. Learning takes place online or offline, either on campus or at partner locations, in accordance with the agreed schedule. Students are engaged in every stage of the project, from planning through to the presentation of results to the partner.
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References

1	Universitas Pendidikan Indonesia. (2021). Guidelines for the implementation of the consultancy project course. Universitas Pendidikan Indonesia.
2	Longley, P. A., Goodchild, M. F., Maguire, D. J., & Rhind, D. W. (2015). Geographic Information Science and Systems. Wiley.
3	Burrough, P. A., & McDonnell, R. A. (1998). Principles of Geographical Information Systems. Oxford University Press.
4	Fischer, F. H. (2011). "A Practical Guide to GIS Project Management." Journal of Spatial Information Science, (2), 45-59.
5	Roche, S., & Proust, G. (2016). "Best Practices in Geographic Information Consulting." Cartography and Geographic Information Science, 43(5), 371-373.
6	Stefanidis, A., Crooks, A., & Radzikowski, J. (2013). "Geospatial Data and Project Implementation." GeoJournal, 78(1), 1-20.
7	Chorley, R. J., & Kennedy, B. (2012). Introduction to Geographic Information Science. Wiley.

LEARNING PLAN

Week	Sub-CPMK	Sub-CPMK Achievement Indicators	Course Materials	Assessment Form (test/non-test)	Assessment Weight (%)	Synchronous (face-to-face and virtual)	Asynchronous (individual and group assignments)	Duration	Reference No.	Access Time
1	Students are able to conduct observation and evaluation of the situational and field conditions encountered by the partner.	Introduction	Introduction	Participatory; Oral Test	5	Face-to-Face	Searching for relevant sources related to the course	4 x 50 min	1	05-09-2025 13:00
2	Students are able to identify and define the main problems encountered by the partner through data analysis and interviews.	Students are able to form groups and prepare a cooperation agreement letter with the partner.	Group Formation and preparation of a cooperation agreement letter with the partner/agency	Participatory; Oral Test	5	Face-to-Face	Searching for relevant sources related to the course	2 x 50 min	1	10-09-2024 10:00
3	Students are able to conduct observation and evaluation of the situational and field conditions encountered by the partner.	Students are able to conduct a visit/observation or preliminary survey to each agency/institution previously identified, in order to conduct problem identification.	Needs analysis of the community/agency/institution in relation to Geographic Information Science	Participatory; Oral Test	5	Face-to-Face	Searching for relevant sources related to the course	4 x 50 min	1	17-09-2024 10:00
4	Students are able to conduct observation and evaluation of the situational and field conditions encountered by the partner.	Students are able to analyse the situation or findings gathered during the visit/observation.	Preparation of instruments and field survey of community/agency needs in relation to GIS	Participatory; Oral Test	5	Face-to-Face	Searching for relevant sources related to the course	4 x 50 min	1	24-09-2024 10:00
5	Students are able to identify and define the main problems encountered by the partner through data analysis and interviews.	Students are able to identify the problems encountered at each agency/institution.	Identification and formulation of needs, and determination of the types of consultancy activities in the field of GIS	Participatory; Oral Test	5	Face-to-Face	Searching for relevant sources related to the course	4 x 50 min	1	01-10-2024 10:00
6	Students are able to design a relevant data collection	Students are able to conduct a practice of the consultancy	Practice in preparing a Terms of Reference (ToR)	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	08-10-2024 10:00

	method in order to obtain accurate information regarding the partner's conditions.	project with their respective partners.								
7	Students are able to design a relevant data collection method in order to obtain accurate information regarding the partner's conditions.	Students are able to conduct a practice of the consultancy project with their respective partners.	Practice in preparing a Terms of Reference (ToR)	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	15-10-2024 10:00
8	MID-SEMESTER EXAMINATION (UTS)			Essay	15	Face-to-Face	Mid-Semester Examination	4 x 50 min	1	22-10-2024 10:00
9	Students are able to design an innovative solution concept based on the results of the problem analysis conducted.	Students are able to compose a written document or design a product to be proposed as a solution to the partner's problems.	Implementation of the Consultancy Project	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	29-10-2024 10:00
10	Students are able to design an innovative solution concept based on the results of the problem analysis conducted.	Students are able to compose a written document or design a product to be proposed as a solution to the partner's problems.	Implementation of the Consultancy Project	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	05-11-2024 10:00
11	Students are able to design an innovative solution concept based on the results of the problem analysis conducted.	Students are able to compose a written document or design a product to be proposed as a solution to the partner's problems.	Implementation of the Consultancy Project	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	12-11-2024 10:00
12	Students are able to design and implement a feasibility test or hypothesis test of the proposed solution in order to assess its effectiveness.	Students are able to conduct an analytical test of the written document or product that has been designed.	Preparation of the written report on the implementation of the Consultancy Project	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	19-11-2024 10:00

13	Students are able to design and implement a feasibility test or hypothesis test of the proposed solution in order to assess its effectiveness.	Students are able to present the written document or product produced as a solution to the partner's problems.	Preparation of the written report on the implementation of the Consultancy Project	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	26-11-2024 10:00
14	Students are able to design and implement a feasibility test or hypothesis test of the proposed solution in order to assess its effectiveness.	Students are able to present the written document or product produced as a solution to the partner's problems.	Presentation	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	03-12-2024 10:00
15	Students are able to design and implement a feasibility test or hypothesis test of the proposed solution in order to assess its effectiveness.	Students are able to conduct a reflection activity on the consultancy project course that has been undertaken.	Reflection and Evaluation	Participatory	5	Face-to-Face	Practice	4 x 50 min	1	10-12-2024 10:00
16	FINAL SEMESTER EXAMINATION (UAS)				15					17-12-2024 10:00

STUDENT LEARNING WORKLOAD

LEARNING ACTIVITIES	SYNCHRONOUS (Face-to-Face / Virtual)	ASYNCHRONOUS (Structured / Independent)	STUDENT STUDY PREPARATION	TOTAL STUDENT LEARNING AND INSTRUCTION TIME
Lecture/Tutorial/Guided Response	14 x 200 minutes = 2,800 minutes	14 x 100 minutes = 1,400 minutes	14 x 30 minutes = 420 minutes	4,620 minutes (77.0 hours)
Project-based Learning	6 x 200 minutes = 1,200 minutes	6 x 100 minutes = 600 minutes	6 x 30 minutes = 180 minutes	1,980 minutes (33.0 hours)
Discussion (case-based learning)	-	-	-	0 minutes (0.0 hours)
TOTAL				6,600 minutes (110.0 hours)
ASSESSMENT				
Continuous Assessment				
Participation During Instruction	14 x 60 minutes = 840 minutes	-	-	840 minutes (14.0 hours)
Project Work	4 x 300 minutes = 1,200 minutes	4 x 120 minutes = 480 minutes	-	1,680 minutes (28.0 hours)
Assignments	4 x 240 minutes = 960 minutes	4 x 90 minutes = 360 minutes	-	1,320 minutes (22.0 hours)
Quizzes	4 x 30 minutes = 120 minutes	-	-	120 minutes (2.0 hours)
Formative Assessment				120 minutes (2.0 hours)
Summative Assessment				120 minutes (2.0 hours)
TOTAL				4,200 minutes (70.0 hours)
TOTAL WORKLOAD				10,800 minutes (180 hours)
IDEAL NUMBER OF HOURS				180 Hours
CREDITS (SKS)				4
CONFORMITY WITH CREDIT HOURS				COMPLIANT

CPMK ASSESSMENT CRITERIA

No	CPMK	CPL1	CPL2	CPL3	CPL4	CPL5	CPL6	Weight	CPMK Achievement Criteria
1	Students are able to conduct a situational analysis.	4						45	80% of all students achieve a score of at least 75 (on a scale of 100).
2	Students are able to identify problems encountered by the partner.		2					10	80% of all students achieve a score of at least 75 (on a scale of 100).
3	Students are able to collect data and information pertaining to the partner.			3				10	80% of all students achieve a score of at least 75 (on a scale of 100).
4	Students are able to compose a written document and/or design a product as a solution to the partner's problems.				5			15	80% of all students achieve a score of at least 75 (on a scale of 100).
5	Students are able to conduct a hypothesis analysis test or a feasibility assessment of the work to be proposed.					6		20	80% of all students achieve a score of at least 75 (on a scale of 100).
6	Students are able to present the outcomes of their work, whether in the form of a written document or a product to be used by the partner.						3	0	80% of all students achieve a score of at least 75 (on a scale of 100).

COLLABORATIVE TASK DESIGN

TASK TITLE	Consultancy Project Assignment
LEARNING METHOD	Team-based Project
TIMEFRAME	
ASSESSMENT WEIGHT	25
SUB-CPMK	Students are able to conduct observation and evaluation of the situational and field conditions encountered by the partner.
TASK DESCRIPTION	This project involves providing consultancy services to assist an organisation or company in identifying, analysing, and resolving various business or operational problems. The consultant is responsible for collaborating with the client to understand their needs, developing effective solutions, and providing guidance on the implementation of changes.
TASK IMPLEMENTATION STEPS	1. Conducting the initial orientation 2. Exploring cooperation with the third party 3. Visiting the third-party (partner) location 4. Conducting a situational analysis 5. Identifying and formulating the problems 6. Formulating the hypotheses 7. Collecting and analysing the data 8. Preparing the written proposed solution and/or product 9. Testing the hypotheses of the proposed solution or product 10. Presentation/Consultation 11. Reflection
DETAILS OF REQUIRED OUTPUTS	An in-depth report analysing operational processes. Recommendations for efficiency improvement solutions. Solution implementation and training for the team. A post-implementation evaluation report.
ASSESSMENT INDICATORS, CRITERIA, AND WEIGHTS	Quality of Problem Analysis (30%) - Accuracy in identifying the main problem. - Depth of analysis and understanding of client needs. Relevance of Proposed Solution (25%) - Alignment of solution with client objectives. - Innovation and feasibility of solution. Effectiveness of Implementation (20%) - Timeliness and resource efficiency in solution deployment. - Acceptance and adaptation by the client team. Final Outcomes and Impact (15%) - Improvements in performance, efficiency, or cost savings. - Sustainability of the solution. Communication and Reporting (10%) - Clarity and completeness of the final report. - Ability to convey information to stakeholders.
IMPLEMENTATION SCHEDULE	Note: The total number of days in one semester is $16 \times 7 = 112$ days. The implementation schedule may be determined based on a daily calculation.
Initial orientation	Week 1
Exploration of cooperation with the third party	Weeks 1 to 2
Visit to the third-party location	Weeks 2 to 3
Situational analysis, problem identification and formulation, hypothesis formulation	Weeks 4 to 5
Data collection	Weeks 5 to 7
Data analysis	Week 8

Preparation of the written proposal and solution	Weeks 8 to 11
Hypothesis testing	Week 12
Presentation/Consultation	Weeks 13 to 14
Reflection and evaluation	Weeks 15 to 16
OTHER NOTES	
REFERENCES	1. Universitas Pendidikan Indonesia. (2021). Guidelines for the implementation of the consultancy project course. Universitas Pendidikan Indonesia.