

Document Code

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Courses				CODE				Cour	se Fa	mily		C	Credit \	Veight		SE	MESTER		ompil	ation
Compute	r Ap	plications II		87202020	007							Т	=2 P	=0 EC	TS=3.1	8	5	+		, 2024
AUTHOR	IZAT	ION		SP Devel	oper						Cou	rse C	Cluster	Coord	inator	Study Program Coordinator				
												Dr.	Dr. Nugroho Hari Purnomo, S.P., M.Si.			nomo,				
Learning model		Case Studies																		
Program Learning		PLO study p	rogran	n which	is ch	argeo	l to th	ie coi	urse											
Outcome (PLO)		Program Ob	jective	s (PO)																
(PLO)		PLO-PO Mat	rix																	
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		PO Matrix at	the en	nd of eac	h lea	rning	stag	e (Su	b-PO)										
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Short Course Descript	se spatial and attribute data processing, overlay analysis, buffers, queries, trends, nearest neighbor analysis (NNA), network				rk an: oject-	alysis, based														
Reference	ces	Main :	, , ,																	
		2. CH SAG 3. ES 4. Jo Geog 5. Lii Kom 6. Na The	nris Br E Pub SRI, 20 ohn C graphy lywati, unikas ational K-12 C	runsdon olications oli	and S Ltd G/S ers, cation Bud Bud Tch (Lex 10.2 et al on Or iman gor. Coun he N	Man I, 20 Inline , 200 cil, 20	ber, 2 ual , 12, 0 Vol. 2 07, D 006, nal A	ESR Geosp 2 Nor ata S Learn	, An I Pub patial mor 1 Spasia ning t mies	ntrod liser, Onlii Sprii al, Pi o The	Newne ling 2 lihar	on to y York nstruc 012 n Cerc nink S _l ashing	R for tion I las B patiall gton.	Spatia Model, angsa 'y: GIS	ustaka Pelajar, Yogjakarta atial Analysis and Mapping, del, Review of International gsa Yang Bijak, PT Sarana GIS as a Support System in SIG, Tidak Dipublikasikan,				
		Supporters:																		
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Supporti lecturer	ing	Dra. Ita Mardia Dr. Muzayana Dian Ayu Lara	h, S.T.,	M.T.	·															
Week-	of e lear	al abilities each ning stage b-PO)			Evalu	ıation					Le Stud [arnin lent <i>i</i>	Learni ng metl Assign nated t	nods, ments ime]		m	Learning materials [Assess References Weigh			
(0.11.0.1			Inc	dicator		Crit	eria &	Form	1		line (line)		Onli	ne (on	line)					

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Determine analytical techniques in GIS studies	Explain the various uses of analysis techniques in GIS	Criteria: The assessment contained in Assessment Sheet 1 is carried out during the Mid-Semester Examination (UTS)	- Pulpit lecture - Question and answer Discussion 2 X 50			0%
2	Collecting spatial data	- Collect terrestrial data - Identify tabular data in GIS	Criteria: The assessment contained in Assessment Sheet 1 is carried out during the Mid-Semester Examination (UTS)	- Pulpit lecture - Question and answer Discussion - assignment 4 X 50			0%
3	Collecting spatial data	- Collect terrestrial data - Identify tabular data in GIS	Criteria: The assessment contained in Assessment Sheet 1 is carried out during the Mid-Semester Examination (UTS)	- Pulpit lecture - Question and answer Discussion - assignment 4 X 50			0%
4	Create digital maps	- Digitizing the base map - Editing the base map - Transforming the base map - Creating labeling on the base map	Criteria: 1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	- Assignment - 8 X 50 Performance			0%
5	Create digital maps	- Digitizing the base map - Editing the base map - Transforming the base map - Creating labeling on the base map	Criteria: 1. Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3. The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	- Assignment - 8 X 50 Performance			0%

Create digital maps Transforming the base map-cleating the base map cleating the base map analysis. 2. Assessment sheet 2 is used to observe students' skills in applying the conditions of the base map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying outcompleting each task given and observing students' responsibilities in carrying outcompleting each task given and each task given and observing students' responsibilities in the GIS Basic Analysis course. Transforming the base map cleating the base map creating the base map			T	T	T	1	
base map - Editing the base map - Transforming the base map - Creating labeling on the base map analysis. 2. Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3. The assessment in Assessment in Assessment in Assessment in Assessment in He GIS Basic Analysis course.	6		base map - Editing the base map - Transforming the base map - Creating labeling on the	1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic	8 X 50		0%
	7		base map - Editing the base map - Transforming the base map - Creating labeling on the	1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic	8 X 50		0%
	8	UTS			2 X 50		0%

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9	Apply buffer analysis techniques	- Perform line buffer analysis - Perform polygon buffer analysis - Perform buffer analysis	Criteria: 1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	Demonstration - Performance 2 X 50			0%
10	Apply overlay analysis techniques	- Applying overlay analysis techniques - Analyzing overlay analysis results	Criteria: 1. Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3. The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	- Demonstration - Performance 2 X 50			0%
11	Apply query analysis techniques	- Apply query analysis techniques - Create conformity tables - Analyze query analysis results	Criteria: The assessment contained in Assessment Sheet 3 is carried out during the Final Semester Examination (UAS) in the form of a performance test in making digital maps	- Demonstration - Performance 4 X 50			0%

12	Apply query analysis techniques	- Apply query analysis techniques - Create conformity tables - Analyze query analysis results	Criteria: 1. Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3. The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	- Demonstration - Performance 4 X 50		0%
13	Applying NNA analysis	- Applying NNA analysis techniques - Measuring centograms of growth/activity centers - Reviewing NNA analysis results	Criteria: 1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	- Demonstration - Performance 4 X 50		0%

14	Applying NNA analysis	- Applying NNA analysis techniques - Measuring centograms of growth/activity centers - Reviewing NNA analysis results	Criteria: 1. Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2. Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3. The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	Demonstration - Performance 4 X 50		0%
15	Applying trend analysis and NA analysis (Networking Analysis)	- Apply "trend" analysis techniques - Create charts/diagrams - Apply NA analysis techniques Finding alternative routes - Finding places/study centers in spatial studies - Analyzing the results of NA analysis	Criteria: 1.Assessment sheet 2 is used to assess students' mastery in using Arcview/ArcGIS software, students' skills in applying the software to carry out digital map analysis. 2.Assessment sheet 2 is used to observe students' responsibilities in carrying out/completing each task given and observing students' resilience in the Basic Analysis GIS practicum. 3.The assessment in Assessment Sheet 2 is carried out during lectures in the GIS Basic Analysis course.	Demonstration - Performance - presentation 2 X 50		0%
16						0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study
 Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of
 their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
 are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and
 knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.

- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.