

Supporting

## **Universitas Negeri Surabaya Faculty of Social Sciences and Law Geography Education Undergraduate Study Program**

Document Code

## SEMESTER LEARNING PLAN Compilation Date Courses CODE **Course Family Credit Weight SEMESTER** T=2 P=0 ECTS=3.18 **Land Erosion and Conservation** 8720202023 July 18, 2024 Study Program Coordinator AUTHORIZATION SP Developer **Course Cluster Coordinator** Dr. Nugroho Hari Purnomo, S.P., M.Si. **Case Studies** Learning model Program PLO study program which is charged to the course Learning Outcomes **Program Objectives (PO)** (PLO) **PLO-PO Matrix** P.O PO Matrix at the end of each learning stage (Sub-PO) P.O Week 2 3 7 9 1 4 5 6 8 10 11 12 13 15 16 14 Understanding and assessing the nature and scope of land erosion and conservation, criteria for suitability and capability of land for several agricultural, forestry, settlement and tourism commodities, understanding the concept of analysis units based on landforms, terrain and terrain, preparation of analysis unit maps, spatial characteristics of the unit analysis, matching criteria with spatial characteristics in the analysis unit, land use **Short Course** Description References Main: 1. Hardjowigeno, S., Widiatmaka, 2007. *Erosi Kesesuaian Lahan dan Perencanaan Tatagunaha Lahan*. Yogyakarta: Gadjah Mada University Press 2. Rayes, L., 2006. *Medode Inventarisasi Sumberdaya Lahan*. Yogyakarta: Penerbit Andi 3. Verstappen, 2015. Geomorfologi Terapan. Terjemahan Sutikno. Yogyakarta : Ombak Ritohardoyo, S. 2013. Penggunaan dan Tata Guna Lahan . Yogyakarta : Penerbit Ombak Turner, B.L., Meyer, W. 1994. Changes in Land Use and Land Cover. A Global Perspective . Cambridge : Cambridge University Press, Supporters:

lecturer	Drs. Bambang Ha		yanto, M.Pd. urnomo, S.P., M.Si.				
Week-	Final abilities of each learning stage	Ev	Evaluation		elp Learning, ning methods, nt Assignments, stimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline ( offline )	Online ( online )	References ]	
(1)	(2)	(2) (3) (4)			(6)	(7)	(8)

1	Students are able to understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of landforms as units of analysis Students are able to understand the concept of applied geomorphology as a basis for land erosion Students are able to identify several landform units Students are able to understand the concepts of terrain and land as units of analysis Students are able to understand the concepts of terrain and land as units of analysis Students are able to understand land understand land sunits are able to understand land suse classifications Students are able to understand changes in land use Students are able to understand land capability classifications Students are able to understand land conservation for agriculture and forestry Students are able to understand land conservation for non-agriculture and forestry Students are able to identify areas for land use planning based on land conservation Students able to plan land use based on land erosion	Explain: the concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis, students are able to understand the concept of applied geomorphology as a basis for land erosion, identify several landform units, the concept of terrain and land as a unit of analysis, identify several units of terrain and land, land use classification, land use classification land capability land conservation for agriculture and forestry land conservation for non-agriculture and forestry identifying areas for land use planning based on land conservation planning land use based on land erosion land erosion	Criteria:  1. The assessment criteria are carried out by looking at aspects:  2.1. Participation: carried out by observing student activities (weight 2)  3.2. UTS: carried out with an assessment during the middle of the semester (weight 2)  4.3. UAS: carried out every semester to measure all indicators (weight 3)  5. Tasks: performed on each indicator	Presentation, class discussion, question and answer 2 X 50		0%

2	Students are able to understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of landforms as units of analysis Students are able to understand the concept of applied geomorphology as a basis for land erosion Students are able to identify several landform units Students are able to understand the concepts of terrain and land as units of analysis Students are able to understand the concepts of terrain and land as units of analysis Students are able to understand land use classificationsStudents are able to understand land useStudents are able to understand land useStudents are able to understand land capability classificationsStudents are able to understand land conservation for agriculture and forestryStudents are able to understand land conservation for agriculture and forestryStudents are able to identify areas for land use planning based on land conservationStudents able to plan land use based on land crosion	Explain: the concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis, students are able to understand the concept of applied geomorphology as a basis for land erosion, identify several landform units, the concept of terrain and land as a unit of analysis, identify several units of terrain and land use classification, land use change, suitability classification land classification land conservation for agriculture and forestry land conservation for non-agriculture and forestry identifying areas for land use planning based on land conservation planning land use based on land erosion	Criteria:  1.The assessment criteria are carried out by looking at aspects:  2.1. Participation: carried out by observing student activities (weight 2)  3.2. UTS: carried out with an assessment during the middle of the semester (weight 2)  4.3. UAS: carried out every semester to measure all indicators (weight 3)  5.Tasks: performed on each indicator	Presentation, class discussion, question and answer 2 X 50		0%
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			1		1	
4	Students are able to	Explain: the	Criteria:	Presentation,		0%
	understand the concept and meaning	concept and understanding	1.The assessment	class		
	of land erosion	of land erosion,	criteria are	discussion, guestion and		
	Students are able to	approaches to	carried out by	answer		
	understand approaches to land	land classification,	looking at	2 X 50		
	classification Students	the concept of	aspects: 2.1. Participation:			
	are able to understand the concept of	landforms as a	carried out by			
	landforms as units of	unit of analysis, students are	observing			
	analysis Students are	able to	student activities			
	able to understand the concept of applied	understand the concept of	(weight 2)			
	geomorphology as a	applied	3.2. UTS: carried			
	basis for land erosion	geomorphology	out with an			
	Students are able to identify several	as a basis for land erosion,	assessment			
	landform units	identify several	during the middle			
	Students are able to	landform units,	of the semester (weight 2)			
	understand the concepts of terrain and	the concept of terrain and land	4.3. UAS: carried			
	land as units of	as a unit of	out every			
	analysis Students are able to identify several	analysis, identify several	semester to			
	terrain units and	units of terrain	measure all			
	landStudents are able	and land, land	indicators			
	to understand land use	use classification,	(weight 3)			
	classificationsStudents	land use	5.Tasks:			
	are able to understand	change,	performed on each indicator			
	changes in land useStudents are able	suitability classification	cacii iliulcatoi			
	to understand land	land				
	suitability classificationsStudents	classification land capability				
	are able to understand	land capability				
	land capability	conservation				
	classificationsStudents are able to understand	for agriculture and forestry				
	land conservation for	land				
	agriculture and	conservation				
	forestryStudents are able to understand	for non- agriculture and				
	land conservation for	forestry				
	non-agriculture and forestryStudents are	identifying areas for land				
	able to identify areas	use planning				
	for land use planning	based on land				
	based on land conservationStudents	conservation planning land				
	able to plan land use	use based on				
	based on land erosion	land erosion				
5	Students are able to	Explain: the	Criteria:	Presentation.		0%
5	understand the	concept and	Criteria: 1.The assessment	class		0%
5	understand the concept and meaning	concept and understanding		class discussion,		0%
5	understand the concept and meaning of land erosion Students are able to	concept and understanding of land erosion, approaches to	1.The assessment criteria are carried out by	class discussion, question and		0%
5	understand the concept and meaning of land erosion Students are able to understand	concept and understanding of land erosion, approaches to land	1.The assessment criteria are carried out by looking at	class discussion, question and answer		0%
5	understand the concept and meaning of land erosion Students are able to understand approaches to land	concept and understanding of land erosion, approaches to	1.The assessment criteria are carried out by looking at aspects:	class discussion, question and		0%
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5	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of	concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis,	1.The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by	class discussion, question and answer		0%
5	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of landforms as units of analysis Students are	concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis, students are able to	1.The assessment criteria are carried out by looking at aspects: 2.1. Participation:	class discussion, question and answer		0%
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10	Students are able to	Explain: the	Criteria:	Presentation,		0%
	understand the	concept and	1.The assessment	class		
	concept and meaning	understanding	criteria are	discussion,		
	of land erosion Students are able to	of land erosion, approaches to	carried out by	question and		
	understand	land	looking at	answer		
	approaches to land	classification,	•	2 X 50		
	classification Students	the concept of	aspects: 2.1. Participation:			
	are able to understand	landforms as a				
	the concept of	unit of analysis,	carried out by			
	landforms as units of	students are	observing			
	analysis Students are able to understand the	able to understand the	student activities			
	concept of applied	concept of	(weight 2)			
	geomorphology as a	applied	3.2. UTS: carried			
	basis for land erosion	geomorphology	out with an			
	Students are able to	as a basis for	assessment			
	identify several	land erosion,	during the middle			
	landform units Students are able to	identify several landform units,	of the semester			
	understand the	the concept of	(weight 2)			
	concepts of terrain and	terrain and land	4.3. UAS: carried			
	land as units of	as a unit of	out every			
	analysis Students are	analysis,	semester to			
	able to identify several	identify several	measure all			
	terrain units and	units of terrain				
	landStudents are able to understand land	and land, land use	indicators			
	use	classification,	(weight 3)			
	classificationsStudents	land use	5.Tasks:			
	are able to understand	change,	performed on			
	changes in land	suitability	each indicator			
	useStudents are able	classification				
	to understand land suitability	land classification				
	classificationsStudents	land capability				
	are able to understand	land				
	land capability	conservation				
	classificationsStudents	for agriculture				
	are able to understand	and forestry				
	land conservation for	land				
1	agriculture and forestryStudents are	conservation for non-				
	able to understand	agriculture and				
	land conservation for	forestry				
	non-agriculture and	identifying				
	forestryStudents are	areas for land				
	able to identify areas for land use planning	use planning based on land				
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	conservationStudents	planning land				
	able to plan land use	use based on				
	based on land erosion	land erosion				
11	Ctudente are able to	Evalain: the	Cuitouio	Drocontotion		004
11	Students are able to	Explain: the	Criteria:	Presentation,		0%
11	understand the	concept and	1.The assessment	class		0%
11			1.The assessment criteria are	class discussion,		0%
11	understand the concept and meaning of land erosion Students are able to	concept and understanding of land erosion, approaches to	1.The assessment	class discussion, question and		0%
11	understand the concept and meaning of land erosion Students are able to understand	concept and understanding of land erosion, approaches to land	1.The assessment criteria are	class discussion, question and answer		0%
11	understand the concept and meaning of land erosion Students are able to understand approaches to land	concept and understanding of land erosion, approaches to land classification,	1.The assessment criteria are carried out by looking at aspects:	class discussion, question and		0%
11	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students	concept and understanding of land erosion, approaches to land classification, the concept of	1.The assessment criteria are carried out by looking at	class discussion, question and answer		0%
11	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand	concept and understanding of land erosion, approaches to land classification, the concept of landforms as a	1.The assessment criteria are carried out by looking at aspects:	class discussion, question and answer		0%
11	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students	concept and understanding of land erosion, approaches to land classification, the concept of	1.The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by	class discussion, question and answer		0%
11	understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of landforms as units of analysis Students are	concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis, students are able to	1.The assessment criteria are carried out by looking at aspects:     2.1. Participation:	class discussion, question and answer		0%
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	based off failu erosion	iailu ciusiuil				 

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13	Students are able to understand the	Explain: the concept and	Criteria:	Presentation,		0%
	concept and meaning	understanding	1.The assessment	class		
	of land erosion	of land erosion.	criteria are	discussion,		
	Students are able to	approaches to	carried out by	question and		
	understand	land	looking at	answer		
	approaches to land	classification,	aspects:	2 X 50		
	classification Students	the concept of	2.1. Participation:			
	are able to understand	landforms as a				
	the concept of	unit of analysis,	carried out by			
	landforms as units of	students are	observing			
	analysis Students are able to understand the	able to understand the	student activities			
	concept of applied	concept of	(weight 2)			
	geomorphology as a	applied	3.2. UTS: carried			
	basis for land erosion	geomorphology	out with an			
	Students are able to	as a basis for	assessment			
	identify several	land erosion,	during the middle			
	landform units	identify several	of the semester			
	Students are able to	landform units,	(weight 2)			
	understand the	the concept of terrain and land	( )			
	concepts of terrain and land as units of	as a unit of	4.3. UAS: carried			
	analysis Students are	analysis.	out every			
	able to identify several	identify several	semester to			
	terrain units and	units of terrain	measure all			
	landStudents are able	and land, land	indicators			
	to understand land	use	(weight 3)			
	use	classification,	5.Tasks:			
	classificationsStudents	land use	performed on			
	are able to understand changes in land	change, suitability	each indicator			
	useStudents are able	classification	eacii ilidicatoi			
	to understand land	land				
	suitability	classification				
	classificationsStudents	land capability				
	are able to understand	land '				
	land capability	conservation				
	classificationsStudents	for agriculture				
	are able to understand land conservation for	and forestry land				
	agriculture and	conservation				
	forestryStudents are	for non-				
	able to understand	agriculture and				
	land conservation for	forestry				
	non-agriculture and	identifying				
	forestryStudents are	areas for land				
	able to identify areas	use planning				
	for land use planning	based on land				
	based on land	conservation				
	conservationStudents	planning land				
	able to plan land use based on land erosion	use based on land erosion				
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14	Students are able to understand the concept and meaning of land erosion	Explain: the concept and understanding of land erosion,	Criteria:  1.The assessment criteria are carried out by	Presentation, class discussion, question and			0%
	Students are able to	approaches to	,	answer			
	understand approaches to land	land classification,	looking at	2 X 50			
	classification Students	the concept of	aspects:	2,7,00			
	are able to understand	landforms as a	2.1. Participation:				
	the concept of	unit of analysis,	carried out by				
	landforms as units of	students are	observing				
	analysis Students are	able to	student activities				
	able to understand the	understand the	(weight 2)				
	concept of applied geomorphology as a	concept of applied	3.2. UTS: carried				
	basis for land erosion	geomorphology	out with an				
	Students are able to	as a basis for	assessment				
	identify several	land erosion,	during the middle				
	landform units	identify several	of the semester				
	Students are able to	landform units,	(weight 2)				
	understand the concepts of terrain and	the concept of terrain and land	4.3. UAS: carried				
	land as units of	as a unit of					
	analysis Students are	analysis,	out every				
	able to identify several	identify several	semester to				
	terrain units and	units of terrain	measure all				
	landStudents are able	and land, land	indicators				
	to understand land use	use classification,	_ (weight 3)				
	classificationsStudents	land use	5.Tasks:				
	are able to understand	change,	performed on				
	changes in land	suitability	each indicator				
	useStudents are able	classification					
	to understand land	land					
	suitability classificationsStudents	classification					
	are able to understand	land capability land					
	land capability	conservation					
	classificationsStudents	for agriculture					
	are able to understand	and forestry					
	land conservation for	land					
	agriculture and forestryStudents are	conservation for non-					
	able to understand	agriculture and					
	land conservation for	forestry					
	non-agriculture and	identifying					
	forestryStudents are	areas for land					
	able to identify areas	use planning					
	for land use planning	based on land					
	based on land conservationStudents	conservation planning land					
	able to plan land use	use based on					
	based on land erosion	land erosion					
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15	Students are able to understand the concept and meaning of land erosion Students are able to understand approaches to land classification Students are able to understand the concept of landforms as units of analysis Students are able to understand the concept of applied geomorphology as a basis for land erosion Students are able to identify several landform units Students are able to understand the concepts of terrain and land as units of analysis Students are able to understand trerain units and landStudents are able to understand land use classificationsStudents are able to understand changes in land useStudents are able to understand land suitability classificationsStudents are able to understand land capability classificationsStudents are able to understand land conservation for agriculture and forestryStudents are able to understand land conservation for non-agriculture and	Explain: the concept and understanding of land erosion, approaches to land classification, the concept of landforms as a unit of analysis, students are able to understand the concept of applied geomorphology as a basis for land erosion, identify several landform units, the concept of terrain and land as a unit of analysis, identify several units of terrain and land use classification, land use classification land capability land conservation for agriculture and forestry land conservation for non-agriculture and forestry identifying	Criteria:  1.The assessment criteria are carried out by looking at aspects:  2.1. Participation: carried out by observing student activities (weight 2)  3.2. UTS: carried out with an assessment during the middle of the semester (weight 2)  4.3. UAS: carried out every semester to measure all indicators (weight 3)  5.Tasks: performed on each indicator	Presentation, class discussion, question and answer 2 X 50		0%
	agriculture and forestryStudents are able to understand	conservation for non- agriculture and				
16						0%

Evaluation Percentage Recap: Case Study

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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.
- 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.
- 9. 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.