



Universitas Negeri Surabaya
Faculty of Social and Political Sciences,
Social Sciences Education Masters Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date											
Environmental Geography	8712002084	Compulsory Study Program Subjects	T=2	P=0	ECTS=4.48	2	October 22, 2023											
AUTHORIZATION		SP Developer	Course Cluster Coordinator			Study Program Coordinator												
		Prof. Dr. Ketut Prasetyo, M.S	Prof. Dr. Ketut Prasetyo, M.S			Dr. Agus Suprijono, M.Si.												
Learning model	Project Based Learning																	
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																	
	Program Objectives (PO)																	
	PO - 1	Able to be responsible for analyzing various environmental characteristics and natural resources independently (CPL-2)																
	PLO-PO Matrix																	
		P.O																
	PO-1																	
PO Matrix at the end of each learning stage (Sub-PO)																		
	P.O	Week																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	PO-1																	
Short Course Description	This course is a course that discusses environmental geography material. The discussion begins with the basic concept of ecology as a basic environmental science, then discusses and analyzes ecosystems globally and explains in detail marine, fluvial, volcanic, karst, aeolin and glacier ecosystems. In the end, sustainable environmental management models are provided.																	
References	Main :																	
	<ol style="list-style-type: none"> 1. 1. Castree, N, et al 2009, A companion to environmental geography. A John Wiley & sons, 2. 2. Enger, E and Smith, B.,2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill 3. 3. Hester, RE and Harrison, RM. 2010.Ecosystem services. RSC publishing 4. 4. Campbell, S and Norman,1998. An introduction to environmental biophysics 2 nd. Springer 5. 5. Szabo, J, et al . 2006. Antropogenic geomorphology, a guide to man-made landforms. Springer 																	
	Supporters:																	
	<ol style="list-style-type: none"> 1. 1. Pepper, I, et al. 2006. Environmental & pollution science. Elsevier 2. 2. Eugene P Odum.2005. Fundamentals of ecology. Belmont, CA : Thomson Brooks/Cole 																	
Supporting lecturer	Prof. Dr. Ketut Prasetyo, M.S.																	
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)											
		Indicator	Criteria & Form	Offline (offline)	Online (online)													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)											

1		1.1 Explain the definition and scope of environmental geography	<p>Criteria: benchmark reference criteria</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	Cooperative Learning Responsive Lecture Assignment 1 Analyzing geo-environmental study objects [PT BM : (1 1) x (2X60')] [TM : 1 (2x50')]		<p>Material: - Definition and Scope of Environmental Geography References: 1. <i>Castree, N, et al 2009, A companion to environmental geography. A John Wiley & sons,</i></p>	7%
2	Able to understand, analyze and implement ecological concepts as a basis for explaining the environment	1.Explain the meaning and scope of an ecosystem 2.Analyzing ecosystem component factors	<p>Criteria: Benchmark assessment criteria</p> <p>Form of Assessment : Project Results Assessment / Product Assessment</p>	Cooperative Learning Responsive Lecture [Assignment 2 - Analyzing the chain of life in various ecosystems TM : 1 (2x50')]		<p>Material: - Definition and elements of ecosystems References: 1. <i>Castree, N, et al 2009, A companion to environmental geography. A John Wiley & sons,</i></p>	7%
3	Able to understand, analyze and implement ecological concepts as a basis for explaining the environment	1.Explain the meaning and scope of an ecosystem 2.Analyzing ecosystem component factors	<p>Criteria: Benchmark assessment criteria</p> <p>Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment</p>	Cooperative Learning Responsive Lecture [Assignment 2 - Analyzing the chain of life in various ecosystems TM : 1 (2x50')]		<p>Material: - Definition and elements of ecosystems References: 1. <i>Castree, N, et al 2009, A companion to environmental geography. A John Wiley & sons,</i></p>	7%
4		3.1. Identify environmental laws	<p>Form of Assessment : Project Results Assessment / Product Assessment</p>	Cooperative Learning Responsive Lecture [TM : 1 (2x50')]			7%
5		1.4. 1 Identify types of environment 2.4.2. Analyze the types of natural resources related to the environment	<p>Criteria: 1.Benchmark assessment criteria 2.Form: Non Test -</p> <p>Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance</p>	Cooperative Learning [TM : 1 (2x50')]		<p>Material: - Understanding DA Resources and the Environment Literature: 3. <i>Hester, RE and Harrison, RM. 2010. Ecosystem services. RSC publishing</i></p> <p>Material: Types of environmental natural resources - Distribution of environmental natural resources References: 2. <i>Enger, E and Smith, B., 2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill</i></p>	7%

6		<p>1.5.1. Explain the meaning and causes of environmental problems</p> <p>2.5.2. Analyze environmental problems and their impacts</p>	<p>Criteria:</p> <ol style="list-style-type: none"> 1.Criteria: Performance Rubric 2.Form: Non Test - 3.Assignment assessment of analysis and alternative problem solving based on theory - Quiz 5 <p>Form of Assessment :</p> <p>Project Results Assessment / Product Assessment</p>	<p>Cooperative Learning and Project base learning [TM : 1 (2x50')]</p>	<p>Cooperative Learning and Project based learning</p>	<p>Material:</p> <p>Material - Understanding environmental problems - Various environmental problems and their impacts - Alternative solutions to environmental problems</p> <p>References: 2. <i>Enger, E and Smith, B., 2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill</i></p> <hr/> <p>Material: Various environmental problems and their impacts - Alternative solutions to environmental problems</p> <p>References: 4. <i>Campbell, S and Norman, 1998. An introduction to environmental biophysics 2nd. Springer</i></p>	7%
7		<p>1.5.1. Explain the meaning and causes of environmental problems</p> <p>2.5.2. Analyze environmental problems and their impacts</p>	<p>Criteria:</p> <ol style="list-style-type: none"> 1.Criteria: Performance Rubric 2.Form: Non Test - 3.Assignment assessment of analysis and alternative problem solving based on theory - Quiz 5 <p>Form of Assessment :</p> <p>Project Results Assessment / Product Assessment</p>	<p>Cooperative Learning and Project based learning</p>	<p>Cooperative Learning and Project based learning</p>	<p>Material:</p> <p>Material - Understanding environmental problems - Various environmental problems and their impacts - Alternative solutions to environmental problems</p> <p>References: 2. <i>Enger, E and Smith, B., 2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill</i></p> <hr/> <p>Material: Various environmental problems and their impacts - Alternative solutions to environmental problems</p> <p>References: 4. <i>Campbell, S and Norman, 1998. An introduction to environmental biophysics 2nd. Springer</i></p>	7%
8			<p>Form of Assessment :</p> <p>Test</p>		<p>Online 90 minutes</p>		1%

9		<p>1.6.1. Identifying various ecosystems formed by marine energy</p> <p>2.6.2. Analyzing the process of various ecosystems formed by marine energy</p>	<p>Criteria:</p> <p>1.Criteria: Performance Rubric</p> <p>2.Form: Non Test -</p> <p>Form of Assessment :</p> <p>Practice / Performance</p>	<p>Lectures, discussions and offline assignments [TM : 1 (2x50')]</p>		<p>Material: - Types of ecosystems in marine landscapes.</p> <p>Reference: 3. Hester, RE and Harrison, RM. 2010. <i>Ecosystem services</i>. RSC publishing</p> <hr/> <p>Material: Analyzing the occurrence of various marine ecosystems.</p> <p>References: 1. Castree, N, et al 2009, <i>A companion to environmental geography</i>. A John Wiley & sons,</p>	7%
10		<p>1. Identify various ecosystems formed by fluvial energy</p> <p>2. Analyzing the process of various fluvial energy-formed ecosystems</p>	<p>Criteria:</p> <p>Criteria: Performance Rubric</p> <p>Form of Assessment :</p> <p>Assessment of Project Results / Product Assessment, Practices / Performance</p>	<p>Project Base Learning Responsive</p> <p>Lecture [TM : 2 (2x50')] [TM : 2 (2x50')]</p>		<p>Material: - Types of ecosystems in fluvial-formed landscapes</p> <p>References: 3. Hester, RE and Harrison, RM. 2010. <i>Ecosystem services</i>. RSC publishing</p> <hr/> <p>Material: - Analyzing the occurrence of various ecosystems formed by fluvial energy.</p> <p>Reference: 2. Enger, E and Smith, B., 2010, 13th <i>Environmental science a study of interrelationships</i>, Mc Graw Hill</p>	7%
11	<p>Able to identify, analyze and evaluate ecosystem phenomena formed by volcanic energy and environmental problems</p>	<p>1. Identify various ecosystems formed by volcanic energy</p> <p>2. Analyzing the process of various ecosystems formed by volcanic energy</p>	<p>Form of Assessment :</p> <p>Project Results Assessment / Product Assessment</p>	<p>Cooperative Learning Responsive</p> <p>Lectures [TM : 4 (2x50')] Cooperative Learning Responsive Lectures [TM : 4 (2x50')] [TM : 4 (2x50')]</p>		<p>Material: - Types of ecosystems in volcanic landscapes.</p> <p>References: 1. Castree, N, et al 2009, <i>A companion to environmental geography</i>. A John Wiley & sons,</p> <hr/> <p>Material: Analyzing the occurrence of various ecosystems formed by volcanic energy.</p> <p>References: 1. Castree, N, et al 2009, <i>A companion to environmental geography</i>. A John Wiley & sons,</p>	7%

12	Able to identify, analyze and evaluate karsting ecosystem phenomena and environmental problems	<p>1. Identify various karst/limestone ecosystems</p> <p>2. Analyze the process of occurrence of various karst/limestone ecosystems</p>	<p>Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance</p>	<p>Cooperative Learning Responsive</p> <p>Lecture [TM : 4 (2x50')]</p>	<p>Material: - Types of ecosystems in karst landscapes References: 4. Campbell, S and Norman, 1998. <i>An introduction to environmental biophysics 2nd. Springer</i></p> <hr/> <p>Material: Analyzing the occurrence of various karst ecosystems References: 5. Szabo, J, et al. 2006. <i>Anthropogenic geomorphology, a guide to man-made landforms. Springer</i></p> <hr/> <p>Material: Identifying and inventorying various types of life in the karst ecosystem References: 1. Castree, N, et al 2009, <i>A companion to environmental geography. A John Wiley & sons,</i></p>	7%
13	Able to identify, analyze and evaluate ecosystem phenomena formed by aolin and glacier energy along with environmental problems	<p>1.. Identifying various ecosystems formed by aolin and glacier energy</p> <p>2.10.2. Analyzing the process of various ecosystems formed by aolin and glacier energy</p>	<p>Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance</p>	<p>Cooperative Learning Responsive</p> <p>Lecture [TM : 4 (2x50')]</p>	<p>Material: - Types of ecosystems in aolin and glacier formed landscapes. References: 1. Castree, N, et al 2009, <i>A companion to environmental geography. A John Wiley & sons,</i></p> <hr/> <p>Material: - Analyzing the occurrence of various ecosystems formed by aolins and glaiters. Reference: 4. Campbell, S and Norman, 1998. <i>An introduction to environmental biophysics 2nd. Springer</i></p>	7%
14		<p>1. Identifying various ecosystems formed by aolin and glacier energy</p> <p>2.10.2. Analyzing the process of various ecosystems formed by aolin and glacier energy</p>	<p>Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance</p>	<p>Offline 2 x 50 minutes</p>		7%

15		1. understand various forms of environmental management 2.11.2. Able to analyze applications implemented in the field regarding various environmental management models	Form of Assessment : Project Results Assessment / Product Assessment			Material: Introduction and principles of various models of environmental management approaches References: 2. Enger, E and Smith, B., 2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill Material: Evaluation of the application of environmental management models References: 2. Enger, E and Smith, B., 2010, 13 th Environmental science a study of interrelationships, Mc Graw Hill	7%
16			Form of Assessment : Test		Online 90 minutes		1%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	3.5%
2.	Project Results Assessment / Product Assessment	70%
3.	Practice / Performance	24.5%
4.	Test	2%
		100%

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.
- 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.
- 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.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.