



# **Universitas Negeri Surabaya Faculty of Social and Legal Sciences Geography Education Masters Study Program**

# SEMESTER LEARNING PLAN

Courses		CODE Course Family		y Credit Weight				SEMESTER	Compilation Date
Advanced Ph	hysical Geography	8710220001	Compulsory Si Program Subje	tudy ects	T=2	P=0	ECTS=4.48	1	April 28, 2023
AUTHORIZATION		SP Developer		Course Cluster Coordinator			oordinator	Study Program Coordinator	
		Dr. Nugroho Hari Purr	nomo, M,Si	Dr. Mu	ızayar	nah, S	t. M.T	Dr. Sukma Pero S.Pd.,	
Learning model	Project Based Learn	ing							

model
Program
Learning
Outcomes
(PLO)

PLO study program that is charged to the course Able to solve scientific problems through research and development activities using geographic technology based on scientific principles PLO-5

PLO-9 Mastering the dynamics of regional problems based on the concepts and approaches of geographic science to solve problems of structuring regional potential using geographic technology

# **Program Objectives (PO)**

PO - 1 Have an academic attitude that is inclusive and egalitarian in various situations PO - 2 Able to explain land dynamics in the context of applied geomorphology PO - 3 Able to explain maritime problems in the context of physical geography

PO - 4 Able to explain climate change problems in the context of physical geography

PO - 5 Able to formulate global environmental change problems

# **PLO-PO Matrix**

P.O	PLO-5	PLO-9
PO-1		
PO-2		
PO-3		
PO-4		
PO-5		

# 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																
PO-2																
PO-3																
PO-4																
PO-5																

### Short Course Description

Discusses the problem of global environmental change in the context of physical geographic space as a result of land dynamics interacting with sea areas, thereby triggering climate change.

## References

## Main:

- 1. Utama:Inkpen, Rob. (2005). Science, Philosophy and Physical Geography. New York: Routledge
- Maslin, Mark, (2004). Global Warming. A Very Short Introductio. Oxford: Oxford: Oxford University Fress
   Slaymaker, O; Spencer, T.; Hamann (2009). Geomorphology and Global Environmental Change. Cambridge University Press. London
- 4. Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis
- 5. Szabó, József; Dávid, Lóránt; Lóczy, Dénes; (2006). Anthropogenic Geomorphology A Guide to Man-Made Landforms. London : Springer
- 6. Pendukung: Mavi, Harpal S.; Tupper, Graeme J.(2004). Principles and Applications of Climate Studies in Agriculture. London: Food Products Press
- 7. Grapes, R. H.; Oldroyd, D.; Grigelis, A. (2008). History of Geomorphology and Quaternary Geology. London: The Geological
- 8. Modul-Modul Pengarus utamaan perubahan iklim dalam perencanaan pembangunan daerah. Kementerian PPN/Bappenas

# Supporters:

Supporting lecturer

Dr. Nugroho Hari Purnomo, S.P., M.Si. Dr. Aida Kurniawati, S.Pd., M.Si.

Week-	Final abilities of each learning stage	ch learning ge Student Assignments, [Estimated time]		Learning materials	Assessment Weight (%)		
	(Sub-PO)	Indicator	Criteria & Form	Offline ( offline )	Online ( online )	[ References ]	J . ,
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understand the scope of physical geography	1.Explain the concept of physical geography 2.Explain the position of physical geography in geographic science	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities	Lectures, varied discussions, and questions and answers 2 X 50	Lectures, varied discussions, and questions and answers 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	10%
2	Analysis in physical geography	1.Explaining spatial boundaries in the study of physical geography 2.Explaining spatial scales in the study of physical geography	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities	Lectures, varied discussions, questions and answers 2 X 50	Lectures, varied discussions, and questions and answers 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	5%
3	Analysis in physical geography	Conduct physical geographic analysis	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities	2 X 50 contextual learning based assignment	Contextual learning based assignment 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	10%
4	Understand the dynamics of climate change	1.Explain     climate- related     concepts     2.Explain the     characteristics     of tropical     climates	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities	Lectures, discussions vary 2 X 50	Lectures, discussions vary 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	10%
5	Understand the dynamics of climate change	Explain the dynamics of climate change in tropical regions	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Forms of Assessment: Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment	Lectures, discussions vary 2 X 50	Lectures, discussions vary 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	5%

6	Understand landforms and their applications	Explains the concept of landforms including relief, process, structure, material, and time	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Lectures, discussions vary 2 X 50	Lectures, discussions vary 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	5%
7	Understanding landforms and their applications / UTS	Identify landforms for resource potential analysis	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Contextual learning based assignment 2 X 50	Contextual learning based assignment 2 x 50	Material: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis Bibliography:	5%
8	Understanding landforms and their applications / UTS	Identify landforms for resource potential analysis	Criteria: Students are able to explain, give examples and analyze conceptually and systematically	Contextual learning based assignment 2 X 50			0%
9	Understand landforms and their applications	Identify landforms for potential disaster analysis	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Contextual learning based assignment 2 X 50	Contextual learning based assignment 2 x 50	Material: Landforms and their applications References: Grapes, RH; Oldroyd, D.; Grigelis, A. (2008). History of Geomorphology and Quaternary Geology. London: The Geological Society	0%
10	Understand watershed and coastal dynamics	1.Explain the concept of watersheds and coasts 2.Explain the relationship between watersheds and coastal land use	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Lectures, discussions vary 2 X 50	Contextual learning- based assignments	Material: watershed and coastal concepts Literature: Grapes, RH, Oldroyd, D.; Grigelis, A. (2008). History of Geomorphology and Quaternary Geology. London: The Geological Society  Material: watershed and coastal concepts Reader: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis	10%

11	Understand	Explain the	Criteria:		Contextual learning	Material:	5%
	watershed and coastal dynamics	concept and importance of land use for watersheds and coasts	Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	2 X 50 contextual learning based assignment	based assignment 2 x 50	watershed and coastal dynamics References: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis	575
12	Understand watershed and coastal dynamics	1.Explain the dynamics of land use change 2.Explain the impact of land change on watersheds and coasts	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Contextual learning based assignment 2 X 50	Contextual learning based assignment 2 x 50	Material: watershed and coastal dynamics References: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis  Material: watershed and coastal dynamics References: Szabó, József; David, Lórant; Lóczy, Dénes; (2006). Anthropogenic Geomorphology A Guide to Man-Made Landforms. London: Springer	5%
13	Geomaritime understanding	Explain geomaritime concepts from a physical point of view	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Forms of Assessment: Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment	Contextual learning based assignment 2 X 50	Contextual learning based assignment 2 x 50	Material: Geomaritime Reference: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis	10%
14	Geomaritime understanding	Explain geomaritime concepts from a physical point of view	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Lectures, discussions vary 2 X 50	Lectures, discussions vary 2 x 50	Material: Geomaritime Reference: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis	10%
15	Geomaritime understanding	Explain maritime resources and disasters	Criteria: Students are able to explain, give examples and analyze conceptually and systematically  Form of Assessment: Participatory Activities, Project Results Assessment / Product Assessment	Contextual learning based assignment 2 X 50	Contextual learning based assignment 2 x 50	Material: Geomaritime Reference: Kay, Robert and Alder Jacqueline. (2005). Coastal Planning and Management. New York: Taylor & Francis	10%

systematically		16	UAS	Criteria: Students are able to explain, give examples and analyze conceptually and systematically	2 X 50			0%
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**Evaluation Percentage Recap: Project Based Learning** 

No	Evaluation	Percentage
1.	Participatory Activities	65%
2.	Project Results Assessment / Product Assessment	30%
3.	Portfolio Assessment	5%
		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.
- 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.
- 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.