



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

Document Code

**SEMESTER LEARNING PLAN**

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Indonesian Geology & Geomorphology	8720202058	Study Program Elective Courses	T=2	P=0	ECTS=3.18	5	July 17, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
	Dr. Eko Budiyanto, M.Si.		Drs. Bambang Hariyanto, M.Pd.			Dr. Nugroho Hari Purnomo, S.P., M.Si.	

Learning model	Case Studies
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Program Learning Outcomes (PLO)	<b>PLO study program that is charged to the course</b>																																																																																																					
	PLO-5	Able to make appropriate decisions to solve educational problems and transformative geography learning by utilizing various learning resources based on science and technology and the arts																																																																																																				
	PLO-7	Able to make appropriate decisions to resolve regional problems in a spatial context based on an integrated geographic approach																																																																																																				
	<b>Program Objectives (PO)</b>																																																																																																					
	PO - 1	Synthesizing the geology and geomorphology of Western Indonesia																																																																																																				
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	PO - 3	Mensistens resources and disasters related to Indonesia's geomorphological geology																																																																																																				
	PO - 4	Synthesizing the environment of quaternary life																																																																																																				
	<b>PLO-PO Matrix</b>																																																																																																					
		<table border="1" style="margin-left: 40px;"> <thead> <tr> <th>P.O</th> <th>PLO-5</th> <th>PLO-7</th> </tr> </thead> <tbody> <tr><td>PO-1</td><td></td><td></td></tr> <tr><td>PO-2</td><td></td><td></td></tr> <tr><td>PO-3</td><td></td><td></td></tr> <tr><td>PO-4</td><td></td><td></td></tr> </tbody> </table>	P.O	PLO-5	PLO-7	PO-1			PO-2			PO-3			PO-4																																																																																							
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Short Course Description	Conduct studies and provide an understanding of the role of processes, structures and stages in the formation of the earth's surface. Basic concepts, scope and study of geomorphology. Including describing existing land forms and in the field. Learning is carried out by applying a constructivist approach. Learning activities are carried out inside and outside the classroom, ending with each student making a report in group discussion and reflection activities.
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References	Main :
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1. Bemmelen, RW Van.. 1957. The Geology of Indonesia Vol. 1A-1B dan II . The Hague : Government Printing Office.
2. Pannekoek, A.J., 1949. Outline of The Geomorphology of Java . Den Haag : Harlem Geological Survey.
3. Sriyono. 2014. Geologi Geomorfologi Indonesia. Yogyakarta : Penerbit Ombak
4. Tarbuck, Edward J., Lutgens, Frederick K., Tasa, Denis.. 2011. Earth : An Introduction to Physical Geolog. New Jersey : Pearson;Prentice Hall. Tenth Ed.
5. Simanjutak T O Tektonika. Badan Geologi, Bandung
6. Verstappen H. Garis Besar Geomorfologi Indonesia. Gajah Mada University Press, Yogyakarta

**Supporters:**

**Supporting lecturer**

Drs. Bambang Hariyanto, M.Pd.  
Dr. Eko Budiyanto, S.Pd., M.Si.  
Dr. Nugroho Hari Purnomo, S.P., M.Si.

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	Students are able to understand the landscape of the Indonesian archipelago	Accuracy in explaining the landscape of the Indonesian archipelago	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities	Presentation, discussion, questions and answers 2 X 50		<b>Material:</b> physical geography <b>References:</b> <i>Tarbuck, Edward J., Lutgens, Frederick K., Tasa, Denis.. 2011. Earth: An Introduction to Physical Geologists. New Jersey : Pearson;Prentice Hall. Tenth Ed.</i>	5%
2	Students are able to understand the geotectonics of western Indonesia	Accuracy in explaining the geotectonics of western Indonesia	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities	Presentation, discussion, questions and answers 2 X 50		<b>Material:</b> tectonics <b>Library:</b> <i>Simanjutak TO Tectonics. Geological Agency, Bandung</i>  <b>Material:</b> geology <b>Reference:</b> <i>Bemmelen, RW Van.. 1957. The Geology of Indonesia Vol. 1A-1B and II . The Hague : Government Printing Office.</i>	10%
3	Students are able to understand the geotectonics of eastern Indonesia	Accuracy in explaining the geotectonics of eastern Indonesia	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Practice / Performance	Presentation, discussion, questions and answers 2 X 50		<b>Material:</b> tectonics <b>Library:</b> <i>Simanjutak TO Tectonics. Geological Agency, Bandung</i>	10%
4	Understand the division of the geological regions of western Indonesia	Accuracy in explaining the division of the geological region of western Indonesia	<b>Criteria:</b> -  <b>Forms of Assessment :</b> Participatory Activities, Portfolio Assessment, Practice / Performance	discussion, question and answer 2 X 50		<b>Material:</b> geological division <b>Reader:</b> <i>Sriyono. 2014. Geology Geomorphology of Indonesia. Yogyakarta: Ombak Publishers</i>  <b>Material:</b> geology <b>Reference:</b> <i>Bemmelen, RW Van.. 1957. The Geology of Indonesia Vol. 1A-1B and II . The Hague : Government Printing Office.</i>	10%

5	Understand the division of the geological regions of eastern Indonesia	Accuracy in explaining the division of the geological regions of eastern Indonesia	<b>Criteria:</b> Complete > 69  <b>Form of Assessment :</b> Participatory Activities	discussion, question and answer 2 X 50		<b>Material:</b> geological division <b>Reader:</b> Sriyono. 2014. <i>Geology Geomorphology of Indonesia</i> . Yogyakarta: Ombak Publishers	5%
6	Understand potential resources and disasters	Accuracy in explaining resources and disasters	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities, Portfolio Assessment	discussion 2 X 50		<b>Material:</b> Java <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology</i> . Gadjah Mada University Press, Yogyakarta  <b>Material:</b> Java <b>Literature:</b> Pannekoek, A.J., 1949. <i>Outline of The Geomorphology of Java</i> . The Hague: Harlem Geological Survey.	5%
7	Understanding quarterly life	Accuracy explains quaternary life	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities, Portfolio Assessment	discussion 2 X 50		<b>Material:</b> Java <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology</i> . Gadjah Mada University Press, Yogyakarta  <b>Material:</b> Java <b>Literature:</b> Pannekoek, A.J., 1949. <i>Outline of The Geomorphology of Java</i> . The Hague: Harlem Geological Survey.	5%
8	UTS		<b>Criteria:</b> Score  <b>Form of Assessment :</b> Test	2 X 50 test		<b>Material:</b> Tectonics <b>Library:</b> Simanjatak TO <i>Tectonics</i> . Geological Agency, Bandung	5%
9	Understanding Javanese physiography	The accuracy of explaining Javanese physiography	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities	discussion 2 X 50		<b>Material:</b> Java <b>Literature:</b> Pannekoek, A.J., 1949. <i>Outline of The Geomorphology of Java</i> . The Hague: Harlem Geological Survey.	5%
10	Students are able to understand the physiographic characteristics of the island of Kalimantan	The accuracy of explaining the Physiography of Kalimantan	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities	Question and answer discussion 2 X 50		<b>Material:</b> Kalimantan <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology</i> . Gadjah Mada University Press, Yogyakarta	10%
11	Understand the physiographic characteristics of the island of Sumatra	The accuracy of explaining the physiography of Sumatra	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Participatory Activities, Practice/Performance	Discussion 2 X 50		<b>Material:</b> Sumatra <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology</i> . Gadjah Mada University Press, Yogyakarta	5%

12	Understand the physiographic characteristics of the island of Sumatra	The accuracy of explaining the physiography of Sumatra	<b>Criteria:</b> Completed >69  <b>Forms of Assessment :</b> Participatory Activities, Portfolio Assessment, Practice / Performance	Discussion 2 X 50		<b>Material:</b> Sumatra <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology.</i> Gadjah Mada University Press, Yogyakarta	5%
13	Understand the physiography of Sulawesi, Maluku, West Papua and the West-East Nusa Tenggara Islands	Accuracy in explaining the physiology of Sulawesi, Papua, Nusa Tenggara	<b>Criteria:</b> Complete > 69  <b>Form of Assessment :</b> Participatory Activities, Practice/Performance	Discussion 2 X 50		<b>Material:</b> geomorphology of Sulawesi Papua Nusa Tenggara <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology.</i> Gadjah Mada University Press, Yogyakarta  <b>Material:</b> geology <b>Reference:</b> Simanjutak TO <i>Tectonics.</i> Geological Agency, Bandung  <b>Material:</b> Sulawesi Papua Nusa Tenggara <b>Reference:</b> Sriyono. 2014. <i>Geology Geomorphology of Indonesia.</i> Yogyakarta: Ombak Publishers	5%
14	Understand the physiography of Sulawesi, Maluku, West Papua and the West-East Nusa Tenggara Islands	Accuracy in explaining the physiology of Sulawesi, Papua, Nusa Tenggara	<b>Criteria:</b> Complete > 69  <b>Form of Assessment :</b> Participatory Activities, Portfolio Assessment	Discussion 2 X 50		<b>Material:</b> geomorphology of Sulawesi Papua Nusa Tenggara <b>Reference:</b> Verstappen H. <i>Outline of Indonesian Geomorphology.</i> Gadjah Mada University Press, Yogyakarta  <b>Material:</b> geology <b>Reference:</b> Simanjutak TO <i>Tectonics.</i> Geological Agency, Bandung  <b>Material:</b> Sulawesi Papua Nusa Tenggara <b>Reference:</b> Sriyono. 2014. <i>Geology Geomorphology of Indonesia.</i> Yogyakarta: Ombak Publishers	5%

15	Understand the physiography of Sulawesi, Maluku, West Papua and the West-East Nusa Tenggara Islands	Accuracy in explaining the physiology of Sulawesi, Papua, Nusa Tenggara	<b>Criteria:</b> Complete > 69  <b>Form of Assessment :</b> Portfolio Assessment	Discussion 2 X 50		<b>Material:</b> geomorphology of Sulawesi Papua Nusa Tenggara <b>Reference:</b> <i>Verstappen H. Outline of Indonesian Geomorphology. Gadjah Mada University Press, Yogyakarta</i>  <b>Material:</b> geology <b>Reference:</b> <i>Simanjatak TO Tectonics. Geological Agency, Bandung</i>  <b>Material:</b> Sulawesi Papua Nusa Tenggara <b>Reference:</b> <i>Sriyono. 2014. Geology Geomorphology of Indonesia. Yogyakarta: Ombak Publishers</i>	5%
16	UAS	test	<b>Criteria:</b> Completed >69  <b>Form of Assessment :</b> Portfolio Assessment, Test	test 2 x 50		<b>Material:</b> geomorphology <b>Bibliography:</b> <i>Pannekoek, A.J., 1949. Outline of The Geomorphology of Java. The Hague: Harlem Geological Survey.</i>	5%

#### Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	52.5%
2.	Portfolio Assessment	20%
3.	Practice / Performance	20%
4.	Test	7.5%
		100%

#### Notes

- 1. 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.
- 2. 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** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.**

