



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

Document  
Code

**SEMESTER LEARNING PLAN**

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Disaster Geography	8720202034	Compulsory Curriculum Subjects	T=2	P=0	ECTS=3.18	4	July 17, 2024
AUTHORIZATION	SP Developer	- National	Course Cluster Coordinator			Study Program Coordinator	
	Dian Ayu Larasati, M.Sc.		Dr. Nugroho Hari Purnomo, S.P., M.Si.			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-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned															
	PLO-7	Able to make appropriate decisions to resolve regional problems in a spatial context based on an integrated geographic approach															
	PLO-8	Able to obtain, process, analyze, present geosphere data and information using geospatial technology in integrated geographic studies with in-depth urban studies that support regional sustainability															
	<b>Program Objectives (PO)</b>																
	PO - 1	Synthesizing the concept of disaster from a geographical perspective															
	PO - 2	Synthesize the concept of risk															
	PO - 3	Risk implementation in the form of spatial data															
	PO - 4	Synthesize valid disaster information															
	<b>PLO-PO Matrix</b>																
			P.O	PLO-3	PLO-7	PLO-8											
		PO-1		✓													
		PO-2				✓											
		PO-3				✓											
		PO-4			✓												
<b>PO Matrix at the end of each learning stage (Sub-PO)</b>																	
	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															✓	✓

**Short Course Description** Able to identify types of disasters geologically, climatologically and geomorphologically. Able to identify the vulnerability of landslides, floods, earthquakes, tsunamis, volcanic eruptions and droughts which are examples of natural disasters that will threaten Indonesian territory at any time. As well as social disasters, social conflicts, such as underdevelopment, mismanagement of social structures, mismanagement of natural resources. Identifying hazard, vulnerability, capacity and risk characteristics in the form of spatial data. Develop disaster mitigation directions in spatial form.

**References** Main :

1. Alik Ismail-Zadeh, J. U. (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.
2. Coburn and Spence (1994), Disaster Mitigation , United Kingdom : Cambridge Arschitectural
3. Edited by Christopher B. Field, V. B. (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.
4. Edited by Irasema Alcántara-Ayala, A. S. (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.
5. Edited by Jonathan Rougier, S. S. (2013). Risk and Uncertainty Assessment for Natural Hazards. Cambridge: Cambridge.
6. Westen, C V., 2007, Geo-information for Disaster Management , Department Earth Systems Analysis International Institute for Geo-Information Science and Earth Observation (ITC)
7. Asia Development Preperednes Centre, 2004. Community Based Disaster Management Course Participants Workbook. Asia Development Preperednes Centre, Bangkok
8. Birkmann, Jorn., 2006. Measuring Vulnerability to Promote Disaster-Resilient Societies : Conceptual Frameworks and Definitions. In Measuring Vulnerability to Natural Hazards. United Nations University, Institute for Environmental and Human Security, Bonn.

**Supporters:**

**Supporting lecturer**

Dr. Nugroho Hari Purnomo, S.P., M.Si.  
Dian Ayu Larasati, S.Pd., M.Sc.

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	Analyzing disaster concepts and management	Accuracy of analyzing the definition and management of disasters	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities	- Presentation - Question and answer. - Discussion 2 X 50		<b>Material:</b> disaster management <b>Reference:</b> <i>Westen, C V., 2007, Geo-information for Disaster Management, Department Earth Systems Analysis International Institute for Geo-Information Science and Earth Observation (ITC)</i>	5%
2	Understand the definition and management of disasters	Accurate understanding of the definition and management of disasters	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities	- Presentation - Question and answer. - Discussion 2 X 50		<b>Material:</b> disaster management <b>Reference:</b> <i>Westen, C V., 2007, Geo-information for Disaster Management, Department Earth Systems Analysis International Institute for Geo-Information Science and Earth Observation (ITC)</i>	5%
3	Analyzing Indonesia's position and characteristics in determining disaster potential	Accuracy of analyzing Indonesia's position and characteristics in determining disaster potential	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities, Portfolio Assessment	- Presentation - Question and answer - Assignment 2 X 50		<b>Material:</b> geomorphological characteristics <b>References:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i>	5%
4	Analyzing Indonesia's position and characteristics in determining disaster potential	Accuracy of analyzing Indonesia's position and characteristics in determining disaster potential	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities	- Presentation - Question and answer - Assignment 2 X 50		<b>Material:</b> geomorphological characteristics <b>References:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i>	5%

5	Analyzing potential disaster hazards	<p>- Analyze the geological position - Describe the geological position of the Indonesian archipelago through a map of the interface between the plates - Analyze the impact of disasters that are most likely to occur in Indonesia as a result of the geological position - Describe the reality of the ring of fire for the Indonesian archipelago - Explain the impact of disasters that are most likely to occur in Indonesia as a result of climatological and geomorphological conditions</p>	<p><b>Criteria:</b> Completed &gt; 65</p> <p><b>Forms of Assessment :</b> Participatory Activities, Practical Assessment, Practical / Performance</p>	<p>- Presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> danger <b>Reference:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p>	5%
6	Understand the potential dangers of disasters	<p>- Explaining the geological position - Describing the geological position of the Indonesian archipelago through a map of the interface between the plates - Explaining the impact of disasters that are most likely to occur in Indonesia as a result of the geological position - Describing the reality of the ring of fire for the Indonesian archipelago - Explaining the impact of disasters that are most likely to occur in Indonesia as a result of climatological and geomorphological conditions</p>	<p><b>Criteria:</b> Completed &gt; 65</p> <p><b>Forms of Assessment :</b> Participatory Activities, Practical Assessment, Practical / Performance</p>	<p>- Presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> danger <b>Reference:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p>	10%

7	Understand the potential dangers of disasters	<p>- Explaining the geological position - Describing the geological position of the Indonesian archipelago through a map of the interface between the plates - Explaining the impact of disasters that are most likely to occur in Indonesia as a result of the geological position - Describing the reality of the ring of fire for the Indonesian archipelago - Explaining the impact of disasters that are most likely to occur in Indonesia as a result of climatological and geomorphological conditions</p>	<p><b>Criteria:</b> Complete &gt; 69</p> <p><b>Form of Assessment :</b> Participatory Activities, Portfolio Assessment</p>	<p>- Presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i></p> <p><b>Material:</b> danger <b>Reference:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <p><b>Material:</b> danger <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p>	10%
8	UTS	UTS	<p><b>Criteria:</b> Complete &gt; 69</p> <p><b>Form of Assessment :</b> Test</p>	UTS 2 X 50		<p><b>Material:</b> Disaster geography <b>Bibliography:</b> <i>Edited by Irasema Alcántara-Ayala, AS (2014). Geomorphological Hazards and Disaster Prevention. Cambridge: Cambridge.</i></p>	5%
9	Analyze vulnerabilities	Accuracy of Analyzing vulnerabilities	<p><b>Criteria:</b> Complete &gt; 69</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	<p>- Discussion - Question and answer - presentation 4 X 50</p>		<p><b>Material:</b> vulnerability <b>References:</b> <i>Birkmann, Jorn., 2006. Measuring Vulnerability to Promote Disaster-Resilient Societies: Conceptual Frameworks and Definitions. In Measuring Vulnerability to Natural Hazards. United Nations University, Institute for Environmental and Human Security, Bonn.</i></p> <p><b>Material:</b> vulnerability <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p>	5%

10	Analyze vulnerabilities	Accuracy of Analyzing vulnerabilities	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities	- Discussion - Question and answer - presentation 4 X 50		<b>Material:</b> vulnerability <b>References:</b> <i>Birkmann, Jorn., 2006. Measuring Vulnerability to Promote Disaster-Resilient Societies: Conceptual Frameworks and Definitions. In Measuring Vulnerability to Natural Hazards. United Nations University, Institute for Environmental and Human Security, Bonn.</i>  <b>Material:</b> vulnerability <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i>	5%
11	Analyze capacity	Accuracy of analyzing capacity	<b>Criteria:</b> Completed > 65  <b>Form of Assessment :</b> Participatory Activities	- Presentation - Discussion 2 X 50		<b>Material:</b> capacity <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i>  <b>Material:</b> capacity <b>References:</b> <i>Asia Development Preparednes Center, 2004. Community Based Disaster Management Course Participants Workbook. Asia Development Preparednes Center, Bangkok</i>	5%
12	Analyze capacity	Accuracy of analyzing capacity	<b>Criteria:</b> Completed > 65  <b>Forms of Assessment :</b> Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment	- Presentation - Discussion 2 X 50		<b>Material:</b> capacity <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i>  <b>Material:</b> capacity <b>References:</b> <i>Asia Development Preparednes Center, 2004. Community Based Disaster Management Course Participants Workbook. Asia Development Preparednes Center, Bangkok</i>	5%

13	Analyzing disaster risks	Accuracy of explaining risks	<p><b>Criteria:</b> Completed &gt; 65</p> <p><b>Forms of Assessment :</b> Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment</p>	<p>- presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> risk <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> mitigation <b>Bibliography:</b> <i>Coburn and Spence (1994), Disaster Mitigation, United Kingdom : Cambridge Architectural</i></p> <hr/> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Jonathan Rougier, SS (2013). Risk and Uncertainty Assessment for Natural Hazards. Cambridge: Cambridge.</i></p>	5%
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14	Analyzing disaster risks	Accuracy of explaining risks	<p><b>Criteria:</b> Complete &gt; 69</p> <p><b>Forms of Assessment :</b> Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment</p>	<p>- presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> risk <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> mitigation <b>Bibliography:</b> <i>Coburn and Spence (1994), Disaster Mitigation, United Kingdom : Cambridge Architectural</i></p> <hr/> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p> <hr/> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Jonathan Rougier, SS (2013). Risk and Uncertainty Assessment for Natural Hazards. Cambridge: Cambridge.</i></p>	10%
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15	Understanding disaster risk	Accuracy of analyzing risks	<p><b>Criteria:</b> Completed &gt; 65</p> <p><b>Forms of Assessment :</b> Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment</p>	<p>- presentation - Assignment - discussion 2 X 50</p>		<p><b>Material:</b> risk <b>References:</b> <i>Alik Ismail-Zadeh, JU (2014). Extreme Natural Hazards, Disaster Risks and Societal Implications. Cambridge: Cambridge.</i></p> <p><b>Material:</b> mitigation <b>Bibliography:</b> <i>Coburn and Spence (1994), Disaster Mitigation, United Kingdom : Cambridge Architectural</i></p> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Christopher B. Field, VB (2012). Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. Cambridge: Cambridge.</i></p> <p><b>Material:</b> risk <b>Bibliography:</b> <i>Edited by Jonathan Rougier, SS (2013). Risk and Uncertainty Assessment for Natural Hazards. Cambridge: Cambridge.</i></p>	10%
16	UAS	<p>- Explain the meaning and objectives of policy - Identify the background to integrating disasters in development policy - Provide examples of development policies in Indonesia that are directly related to disasters - Provide examples of disaster management policies in several developed countries, such as Japan and the USA Develop disaster mitigation directions in spatial form</p>	<p><b>Criteria:</b> Complete &gt; 69</p> <p><b>Form of Assessment :</b> Test</p>	4 X 50 test		<p><b>Material:</b> Disaster Management <b>Reference:</b> <i>Westen, C V., 2007, Geo-information for Disaster Management, Department Earth Systems Analysis International Institute for Geo-Information Science and Earth Observation (ITC)</i></p>	5%

#### Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	52.5%
2.	Project Results Assessment / Product Assessment	10%
3.	Portfolio Assessment	17.5%
4.	Practical Assessment	5%
5.	Practice / Performance	5%
6.	Test	10%
		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.