



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
Land Geography	8720202051	Compulsory Curriculum Subjects	T=2	P=0	ECTS=3.18	3	July 17, 2024
AUTHORIZATION	SP Developer	- National	Course Cluster Coordinator			Study Program Coordinator	
	Dr. Aida Kurniawati, M.Si. / Dr. Nugroho Hari Purnomo, M.Si		Drs. Bambang Hariyanto, M.Pd.			Dr. Nugroho Hari Purnomo, S.P., M.Si.	

Learning model	Project Based Learning																																																																																				
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																																																																				
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																																																																																				
Program Objectives (PO)																																																																																					
PO - 1	Synthesizing pedological concepts from a geographical perspective																																																																																				
PO - 2	Synthesize soil properties																																																																																				
PO - 3	Synthesizing applied land geography studies																																																																																				
PLO-PO Matrix																																																																																					
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>P.O</th> <th>PLO-3</th> <th>PLO-7</th> <th>PLO-8</th> </tr> <tr> <td>PO-1</td> <td style="text-align: center;">✓</td> <td></td> <td></td> </tr> <tr> <td>PO-2</td> <td></td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>PO-3</td> <td></td> <td></td> <td style="text-align: center;">✓</td> </tr> </table>	P.O	PLO-3	PLO-7	PLO-8	PO-1	✓			PO-2		✓		PO-3			✓																																																																				
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PO Matrix at the end of each learning stage (Sub-PO)																																																																																					
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th rowspan="2">P.O</th> <th colspan="16">Week</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th> </tr> <tr> <td>PO-1</td> <td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td></td><td></td><td></td><td></td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-2</td> <td></td><td></td><td></td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>PO-3</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td><td style="text-align: center;">✓</td> </tr> </table>	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												✓	✓	✓	✓	✓
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PO-2				✓	✓	✓	✓																																																																														
PO-3												✓	✓	✓	✓	✓																																																																					

Short Course Description Understanding and studying the nature and scope of soil geography and soil geomorphology, soil as a system in the landscape, factors and processes of soil formation, physical, chemical and biological properties of soil, classification and distribution of soil types, soil surveying and mapping, soil identification based on horizons, the relationship between soil and erosion and soil and water conservation.

References **Main :**

1. Sutanto, Rachman, 2005. Dasar-Dasar Ilmu Tanah, Konsep dan Kenyataan. Yogyakarta : Kanisius
2. Sartohadi, J., Jamulyo, Dewi, N. I. S., 2012. Pengantar Geografi Tanah. Yogyakarta : Pustaka Pelajar
3. Andersen, S., Schaetzl, R., 2005. Soil Genesis and Geomorphology. Cambridge : Cambridge University Press,
4. Hardjowigeno, S., Widiatmaka, 2007. Evaluasi Kesesuaian Lahan dan Perencanaan Tataguna Lahan. Gadjah Mada University Press, Yogyakarta
5. Rayes, Luthfi, M. 2006. Metode Inventarisasi Sumberdaya Lahan. Yogyakarta: Penerbit Andi
6. Sandeep Sharma, 2017. Soil and Bio-Geography. Random Publications. Delhi

Supporters:

1. Poerowidodo, 1992. Metode Selidik Tanah. Surabaya : Usaha Nasional
2. Suripin, 2004. Pelestarian Sumberdaya Tanah dan Air. Yogyakarta : Penerbit Andi
3. Rayes, Luthfi, M. 2006. Metode Inventarisasi Sumberdaya Lahan. Yogyakarta: Penerbit Andi
4. Jamulya, 1989. Geografi Tanah, Konsep dan Terapannya. Makalah Pidato Pengukuhan Jabatan Lektor Kepala Madya Dalam Geografi Tanah , Yogyakarta: Fakultas Geografi UGM
5. Natohadiprawiro, Tejoyuwono, 1994. Geografi Tanah. Diktat Kuliah, Yogyakarta: Program Pascasarjana UGM.
6. Darmawijaya, Isa, 1990. Klasifikasi Tanah. Yogyakarta: Gadjah Mada University Press
7. Steila, Donald, 1976. The Geography of Soils. Formation, Distribution, and Management. New Jersey: Prentice Hall.Inc

Supporting lecturer
Dr. Nugroho Hari Purnomo, S.P., M.Si.
Dr. Aida Kurniawati, S.Pd., 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	Understand the meaning and concept of soil, as well as the geographical position of soil in pedology	Explain the meaning and concept of soil, as well as the geographical position of soil in pedology	Criteria: Exact > 65 Form of Assessment : Participatory Activities	Lecture, discussion, practice 2 X 50	Lectures, discussions	Material: Soil Concepts Literature: <i>Sutanto, Rachman, 2005. Basics of Soil Science, Concepts and Reality. Yogyakarta: Kanisius</i> Material: Soil Geography Concepts Literature: <i>Jamulya, 1989. Soil Geography, Concepts and Applications. Speech Paper for the Inauguration of the Position of Associate Professor in Land Geography, Yogyakarta: Faculty of Geography UGM</i> Material: Concept of soil geography. Reference: <i>Steila, Donald, 1976. The Geography of Soils. Formation, Distribution, and Management. New Jersey: Prentice Hall. Inc</i>	5%

2	Understand methods of understanding soil and understand soil formation and development	Able to explain methods of understanding soil and understanding soil formation and development	Criteria: Complete > 69 Form of Assessment : Participatory Activities	lecture with power point, questions and answers 2 X 50	Lectures, discussions	Material: soil formation and development References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i> <hr/> Material: Soil study Reference: <i>Poerowidodo, 1992. Soil Investigation Method. Surabaya: National Enterprise</i> <hr/> Material: Soil Genesis Bibliography: <i>Andersen, S., Schaetzel, R., 2005. Soil Genesis and Geomorphology. Cambridge: Cambridge University Press,</i>	5%
3	Understand methods of understanding soil and understand soil formation and development	Able to explain methods of understanding soil and understanding soil formation and development	Criteria: Complete > 69 Form of Assessment : Project Results Assessment / Product Assessment	lecture with power point, questions and answers 2 X 50	Lectures, discussions	Material: soil formation and development References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i> <hr/> Material: Soil study Reference: <i>Poerowidodo, 1992. Soil Investigation Method. Surabaya: National Enterprise</i> <hr/> Material: Soil Genesis Bibliography: <i>Andersen, S., Schaetzel, R., 2005. Soil Genesis and Geomorphology. Cambridge: Cambridge University Press,</i>	5%

4	Understand soil composition, physical, chemical and biological properties of soil	Able to explain soil composition, physical, chemical and biological properties of soil	Criteria: Exact > 65 Form of Assessment : Project Results Assessment / Product Assessment	lecture, question and answer, practice 2 X 50	Lectures, discussions	Material: soil properties Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil properties References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i>	10%
5	Understand soil composition, physical, chemical and biological properties of soil	accuracy of analyzing soil composition, physical, chemical and biological properties of soil	Criteria: Complete > 69 Form of Assessment : Project Results Assessment / Product Assessment	lecture, question and answer, practice 2 X 50	Lectures, discussions	Material: soil properties Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil properties References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i>	10%
6	Understand soil composition, physical, chemical and biological properties of soil	Accuracy in explaining soil composition, physical, chemical and biological properties of soil	Criteria: Complete > 69 Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	questions and answers, practice 2 X 50	Lectures, discussions	Material: soil properties Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil properties References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i>	10%

7	Able to analyze soil composition, physical, chemical and biological properties of soil	Accuracy in explaining soil composition, physical, chemical and biological properties of soil	Criteria: Complete > 69 Forms of Assessment : Project Results Assessment / Product Assessment, Practical Assessment	questions and answers, practice 2 X 50	Lectures, discussions	Material: soil properties Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil properties References: <i>Sartohadi, J., Jamulyo, Dewi, NIS, 2012. Introduction to Soil Geography. Yogyakarta: Student Library</i>	5%
8	MIDTERM EXAM	accuracy of analysis	Criteria: Complete > 69 Form of Assessment : Test	2 X 50 test		Material: soil geography Reference: <i>Sutanto, Rachman, 2005. Basics of Soil Science, Concepts and Reality. Yogyakarta: Kanisius</i>	5%
9	Students are able to understand soil classification	Accurate understanding of Soil classification	Criteria: Complete > 69 Form of Assessment : Project Results Assessment / Product Assessment	Group presentation, group discussion, question and answer 2 X 50	Lectures, discussions	Material: Soil geography Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil classification Reference: <i>Darmawijaya, Isa, 1990. Soil Classification. Yogyakarta: Gadjah Mada University Press</i>	5%
10	Students are able to understand soil classification	Accurate understanding of Soil classification	Criteria: Complete > 69 Form of Assessment : Project Results Assessment / Product Assessment	Group presentation, group discussion, question and answer 2 X 50	Lectures, discussions	Material: Soil geography Reference: <i>Natohadiprawiro, Tejoyuwono, 1994. Soil Geography. College Diktat, Yogyakarta: UGM Postgraduate Program.</i> <hr/> Material: soil classification Reference: <i>Darmawijaya, Isa, 1990. Soil Classification. Yogyakarta: Gadjah Mada University Press</i>	5%

11	Able to analyze land resource evaluation	Accuracy in explaining evaluation of land resources	Criteria: Complete > 69 Form of Assessment : Practice / Performance	Presentation, class discussion, question and answer 2 X 50	Lectures, discussions	Material: land evaluation Reference: <i>Suripin, 2004. Conservation of Soil and Water Resources. Yogyakarta: Andi Publisher</i> <hr/> Material: land evaluation Reference: <i>Hardjowigeno, S., Widiatmaka, 2007. Evaluation of Land Suitability and Land Use Planning. Gadjah Mada University Press, Yogyakarta</i>	5%
12	Able to analyze land resource evaluation	Accuracy in explaining evaluation of land resources	Criteria: Complete > 69 Form of Assessment : Practical Assessment	Presentation, class discussion, question and answer 2 X 50	Lectures, discussions	Material: land evaluation Reference: <i>Suripin, 2004. Conservation of Soil and Water Resources. Yogyakarta: Andi Publisher</i> <hr/> Material: land evaluation Reference: <i>Hardjowigeno, S., Widiatmaka, 2007. Evaluation of Land Suitability and Land Use Planning. Gadjah Mada University Press, Yogyakarta</i>	5%
13	Able to analyze land surveys	accuracy of analysis	Criteria: Exact > 65 Form of Assessment : Portfolio Assessment	Group presentation, group discussion, question and answer 2 X 50	Lectures, discussions	Material: land survey References: <i>Rayes, Luthfi, M. 2006. Land Resource Inventory Method. Yogyakarta: Andi Publishers</i> <hr/> Material: soil mapping Reference: <i>Steila, Donald, 1976. The Geography of Soils. Formation, Distribution, and Management. New Jersey: Prentice Hall. Inc</i>	5%

14	Able to analyze soil conservation	accuracy of explaining soil conservation	Criteria: Complete > 69 Form of Assessment : Project Results Assessment / Product Assessment	Group presentation, group discussion, question and answer 2 X 50	Lectures, discussions	Material: land conservation Reference: <i>Suripin, 2004. Conservation of Land and Water Resources. Yogyakarta: Andi Publisher</i> Material: conservation References: <i>Hardjowigeno, S., Widiatmaka, 2007. Evaluation of Land Suitability and Land Use Planning. Gadjah Mada University Press, Yogyakarta</i>	5%
15	Able to analyze soil conservation	accuracy of explaining soil conservation	Criteria: Complete > 69 Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance	Group presentation, group discussion, question and answer 2 X 50	Lectures, discussions	Material: land conservation Reference: <i>Suripin, 2004. Conservation of Land and Water Resources. Yogyakarta: Andi Publisher</i> Material: conservation References: <i>Hardjowigeno, S., Widiatmaka, 2007. Evaluation of Land Suitability and Land Use Planning. Gadjah Mada University Press, Yogyakarta</i>	10%
16	UAS	accuracy of analysis	Criteria: Complete > 69 Form of Assessment : Test	test 2 x 50		Material: applied land geography References: <i>Hardjowigeno, S., Widiatmaka, 2007. Evaluation of Land Suitability and Land Use Planning. Gadjah Mada University Press, Yogyakarta</i>	5%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	10%
2.	Project Results Assessment / Product Assessment	52.5%
3.	Portfolio Assessment	5%
4.	Practical Assessment	12.5%
5.	Practice / Performance	10%
6.	Test	10%
		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.

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.
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.