



Universitas Negeri Surabaya
Faculty of Mathematics and Natural Sciences
Undergraduate Mathematics Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																
Natural Resources Conservation	4420102068		T=2 P=0 ECTS=3.18	2	July 17, 2024																																
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																
		Prof. Dr. Raden Sulaiman, M.Si.																																
Learning model	Project Based Learning																																				
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																				
	Program Objectives (PO)																																				
	PLO-PO Matrix																																				
		P.O																																			
Short Course Description	PO Matrix at the end of each learning stage (Sub-PO)																																				
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 5%;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> </table>				P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																					
References	<p>Main :</p> <ol style="list-style-type: none"> 1. Cluras, D. D. and Reganold, J.P. 2010. Natural Resources Conservation Future. Washington: Washington State University. 2. Hamzah, S. 2010. Pendidikan Lingkungan. Sekelumit Wawasan Pengantar . Bandung: PT RefikaAditama. 3. Indrawan, M; Primack, R.B; Supriatna, J. 2007. Biologi Konservasi . Jakarta: Yayasan Obor Indonesia. 4. Iskandar, Z.I. 2012. Psikologi Lingkungan. Teori dan Konsep . Bandung: PT Refika Aditama. 5. Keraf, A.S. 2010. Etika Lingkungan Hidup . Jakarta: Penerbit BukuKompas. 6. Marfai, M.A. 2013. Pengantar Etika Lingkungan dan Karifan Lokal . Yogyakarta: Gadjah Mada University Press. 7. Mitchell, B; Setiawan, B; Rahmi, D.H. Pengelolaan Sumber daya dan Lingkungan. Yogyakarta : Gadjah Mada University Press. 8. Suparmoko, M. 2013. Ekonomi Sumber Daya Alam dan Lingkungan. Suatu Pendekatan Teoritis . Yogyakarta: BPF. 9. Van Dyke, F. 1993. Conservation Biology . Boston: University of Arkansas, Inc. <p>Supporters:</p>																																				
Supporting lecturer	Dr. Nur Kuswanti, M.Sc.St. Dr. Tarzan Purnomo, M.Si. Dr. H. Sunu Kuntjoro, S.Si., M.Si. Nur Qomariyah, S.Pd., M.Sc. Sari Kusuma Dewi, S.Si., M.Si. Ahmad Fudhaili, S.Si., M.Sc., Ph.D. Firas Khaleyta, S.Si., M.Si. Fitriari Izzatunnisa Muhaimin, B.Sc., M.Sc. Farah Aisyah Nafidiastri, S.Si., 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	Proposing creative ideas in solving general environmental problems	1.Analyzing the background to conservation of natural resources and the environment 2.Describe the meaning, objectives and benefits of conservation 3.Describe efforts to conserve natural resources and the environment	Criteria: Attached Form of Assessment : Participatory Activities	Reference study, 2 X 50 observations			5%
2	Proposing creative ideas in solving general environmental problems	Propose written ideas related to natural resource conservation efforts	Criteria: Attached Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Presentation and discussion 2 X 50			6%
3	Applying environmental ethical principles in life	1.Explain environmental ethics, 2.Describe the principles of environmental ethics. 3.Write an example of environmental ethics	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference studies, observations, project assignments, 2 X 50			0%
4	Applying environmental ethical principles in life	Propose written ideas regarding the importance of environmental ethics in the conservation of natural resources	Criteria: attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation and discussion 2 X 50			0%
5	Develop effective ideas to overcome natural resource and environmental problems.	· Explain the meaning of natural resources · Classify the types of natural resources	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference study, observation, 2 X 50			0%
6	Develop effective ideas to overcome natural resource and environmental problems.	1.Explain the types of natural resources that exist in the environment around students 2.Classify the types of natural resources that exist in the environment around students	Criteria: attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation and discussion 2 X 50			0%

7	Develop systematic ideas to preserve local community wisdom	1.Explains the definition, approach and challenges of local wisdom 2.Analyzing Indonesian culture and local wisdom that supports conservation	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference study, observation, 2 X 50			4%
8	UTS	UTS	Criteria: UTS Form of Assessment : Participatory Activities	UTS 2 X 50			10%
9	Develop systematic ideas to preserve local community wisdom	Proposing efforts to increase the role of local wisdom in supporting conservation	Criteria: attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation and discussion 2 X 50			0%
10	Develop effective ideas in accordance with the principles of natural resource and environmental management	1.describe examples of SDAL problems that occur in society. 2.describe examples of SDAL management that occur in the community.	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference study, observation, 2 X 50			0%
11	Develop ideas for effective natural resource and environmental management in accordance with natural resource management principles	Develop ideas for effective natural resource and environmental management in accordance with natural resource management principles	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation and discussion 2 X 50			0%
12	Understand global and local conservation principles.	Mastering the principles of global SDAL conservation	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference studies, observations, project assignments, 2 X 50			0%
13	Understand global and local conservation principles.	Mastering the principles of local SDAL conservation	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Reference studies, observations, project assignments, 2 X 50			5%

14	Play an active role in the Unesa eco campus movement	Analyze the implementation of eco campus and provide input for improving eco campus activities.	Criteria: Attached Form of Assessment : Participatory Activities	Presentation and discussion 2 X 50			10%
15	Play an active role in efforts to overcome the environment in the area of origin through conservation activities,	• Analyze environmental problems in the area of origin and provide input on conservation efforts that need to be carried out.	Criteria: Attached Form of Assessment : Participatory Activities, Practical Assessment	Reference studies, observations, paper assignments, discussions and presentations 2 X 50			10%
16			Form of Assessment : Participatory Activities	Offline 2 x 50 minutes			10%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	43%
2.	Project Results Assessment / Product Assessment	12%
3.	Practical Assessment	5%
		60%

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.