



Universitas Negeri Surabaya
Faculty of Mathematics and Natural Sciences
Bachelor of Mathematics Education Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																	
Natural Resources Conservation	8420202094	Compulsory Study Program Subjects	T=2 P=0 ECTS=3.18	2	July 17, 2024																																	
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																	
		Dr. Endah Budi Rahaju, M.Pd.																																	
Learning model	Project Based Learning																																					
Program Learning Outcomes (PLO)	PLO study program which is charged to the course																																					
	Program Objectives (PO)																																					
	PLO-PO Matrix																																					
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	PO Matrix at the end of each learning stage (Sub-PO)																																					
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Short Course Description	Discusses: 1) The scope of conservation which includes: Definition, objectives, benefits and efforts to conserve natural resources and the environment (SDAL); 2) Environmental ethics which includes: Definition, Paradigm and Principles of Environmental Ethics; 3) Natural resources which include: Definition, types and benefits of Natural Resources; 4) Local wisdom which includes: Understanding, approaches, challenges and local wisdom in community life in the future; 5) Management and problems of natural resources and the environment which includes: issues, problems and management of natural resources and the environment; 6) Conservation awareness which includes awareness of the importance of conserving natural resources and the environment, eco campus and conservation campus. Lecture activities are carried out in a student center with discussions, observations, project assignments, and presentations by developing ecopreneurship characteristics.																																					
References	Main :																																					
	<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. 																																					
	Supporters:																																					

Supporting lecturer		Dra. Herlina Fitrihidajati, M.Si. Dra. Winarsih, M.Kes. Dr. Tarzan Purnomo, M.Si. Prof.Dr. Yuni Sri Rahayu, M.Si. Prof. Dr. Yuliani, M.Si. Dr. Novita Kartika Indah, S.Pd., M.Si. Nur Qomariyah, S.Pd., M.Sc. Rofiza Yolanda, S.Si, M.Si, Ph.D. Sisca Desi Prastyaningtias, S.Si., M.Si. Firas Khaleyta, S.Si., M.Si. Elma Sakinatus Sajidah, S.Si., M.Si., Ph.D. Fitriari Izzatunnisa Muhaimin, B.Sc., 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	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	Reference study, 2 X 50 observations			0%
2	Proposing creative ideas in solving general environmental problems	Propose written ideas related to natural resource conservation efforts	Criteria: Attached	Presentation and discussion 2 X 50			0%
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	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	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	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	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	Reference study, observation, 2 X 50			0%
8	UTS	UTS	Criteria: UTS	UTS 2 X 50			0%
9	Develop systematic ideas to preserve local community wisdom	Proposing efforts to increase the role of local wisdom in supporting conservation	Criteria: attached	Presentation and discussion 2 X 50			0%
10	Develop effective ideas in accordance with natural resource and environmental management principles	1.describe examples of SDAL problems that occur in society. 2.describe examples of SDAL management that occur in the community.	Criteria: Attached	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	Presentation and discussion 2 X 50			0%
12	Understand global and local conservation principles.	Mastering the principles of global SDAL conservation	Criteria: Attached	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	Reference studies, observations, project assignments, 2 X 50			0%
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	Presentation and discussion 2 X 50			0%
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	Reference studies, observations, paper assignments, discussions and presentations 2 X 50			0%
16	UAS 30%	• Analyze environmental problems in the area of origin and provide input on conservation efforts that need to be carried out.	Criteria: Attached	Reference studies, observations, paper assignments, discussions and presentations 2 X 50			0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
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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** 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.