



SEMESTER STUDY PLAN

Study program: Master of Environmental Science

Faculty: School of Postgraduate

Subject:		Natural Resources and Environment Conservation	Code: P-CIL-8-205	Credit:3 (6 ECTS)	smt:2		
Supporting lecturer:		<ol style="list-style-type: none"> 1. Dr. Fuad Muhammad, SSi, MSi 2. Dr. Hartuti Purnaweni, MPA 3. Dr. Jafron Wasiq Hidayat, M.Sc 					
Learning Outcomes Subject:		<ul style="list-style-type: none"> • Students can understand and explain about the conservation of natural resources and the environment • Mastering the basic concepts of conservation integrated with ecology, diversity plants, and animal diversity carefully, critically and systematically. • Able to find and analyze problems in the field of natural resource conservation and design investigation through a scientific approach in order to obtain accurate and accountable data. • Analyze data to formulate solutions to problems in the field of conservation and the environment creatively, and innovatively 					
Short Description of Courses:		This Solid Waste Management Engineering course aims to equip students with knowledge, understanding and application of natural and environmental conservation as well as equip students to enter the field to learn to identify problems and their solutions.					
1	2	3	4	5	6	7	
Week	Final Ability of each learning stage	Study Materials/ Subjects	Learning methods	Workload	Student Learning Experience	Evaluation	
						Criteria & Indicators	Weight (%)
1.	Introduction/ Lecture contract	Understand the preparation before face-to- face lectures and the obligation to report face-to- face lectures	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30minutes</i> • <i>Presentation : 30minutes</i>	Students know the lecture system	Activity	5

				<i>Individual tasks: 60 minutes/day (16 weeks)</i>			
2	Students have broad insight on natural resource conservation and the environment	Natural Resources Conservation Water, Soil, etc And the implications for the environment	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	Read recommended Modules and libraries; Discussion of learning outcomes; Presentation of the results of the discussion	Criteria: Accuracy and mastery of theory Non-test form: Student activity and Task Presentation	5
3	Students have broad insight on natural resource conservation and the environment	Natural Resources Conservation Water	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	Read recommended Modules and libraries; Discussion of learning outcomes; Presentation of the results of the discussion	Criteria: Accuracy and mastery of theory Non-test form: Student activity and Task Presentation	5
4	Students have broad insight on natural resource conservation and the environment	Soil Conservation, etc And the implications for the environment	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	Read recommended Modules and libraries; Discussion of learning outcomes; Presentation of the results of the discussion	Criteria: Accuracy and mastery of theory Non-test form: Student activity and Task Presentation	5

5	Students are able to explain about Threats to diversity biological,	(1) extinction rate, (2) island biogeography, (3) local extinction,	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Discussion of the previous week's homework b. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss	Accuracy and Completeness and the truth explanation as well accuracy understanding	5
6	Students are able to explain about Threats to diversity biological,	(1) habitat destruction, (2) habitat fragmentation, (3) habitat degradation, (4) global climate change, (5) exploitation of alien species	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Discussion of the previous week's homework b. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss	Accuracy and Completeness and the truth explanation as well accuracy understanding	5
7	Students are able to explain about Conservation at the level Species and Population	(1) population is small, (2) shrinkage of diversity genetics, (3) cross pressure, (4) the size of the population that effective, (5) demographic variation, (6) continuity analysis population life,	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments	Completeness and the truth explanation as well accuracy understanding	5

		(7) metapopulation, (8) ex-situ and in-situ conservation					
8	Students are able to explain about Conservation Level Community	(1) protected area, (2) determination system priority, (3) species approach, (4) ecosystem and community, (5) wild area, (6) international treaties, (7) area size conservation, (8) edge effect, (9) corridor, (10) protected area management, (11) habitat management, (12) ecosystem management	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss	Completeness and the truth explanation as well accuracy understanding	5
9	UTS	Meeting Material 1-7	Independent Written Test	330 minutes of processing time or the equivalent of 0.25 ECTS	Students working on UTS questions	Completeness and the truth explanation as well accuracy understanding	10
10	Field Work	Ex-situ conservation and in-situ:	Discussion	330min (0.375 ECTS) Consist of: • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i>	College student design format observation for	Completeness and the truth explanation as well accuracy	5

		(1) area management cover, (2) habitat management, (3) ecosystem management		<ul style="list-style-type: none"> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	ex-situ conservation and in-situ	understanding	
11	students can understand the concept of conservation use	(1) convention biodiversity, (2) conservation and development sustainable (3) land trust, (4) laws and regulations about conservation	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments (influence diagram)	Completeness and the truth explanation as well accuracy understanding	5
12	students can understand the concept of conservation use	(1) land trust, (2) laws and regulations about conservation	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> • <i>Q&A: 30 minutes</i> • <i>Discussion : 30 minutes</i> • <i>Presentation : 30 minutes</i> <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments (influence diagram)	Completeness and the truth explanation as well accuracy understanding	5
13.	students can understand the concept of conservation use	(1) statutory regulations	Lectures, questions and	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • <i>Lecture:180 minutes</i> 	a. Students listen to the lecturer's explanation and	Completeness and the truth explanation as well	5

		about conservation	answers, and discussions	<ul style="list-style-type: none"> • Q&A: 30 minutes • Discussion : 30 minutes • Presentation : 30 minutes <i>Individual tasks: 60 minutes/day (16 weeks)</i>	answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments (influence diagram)	accuracy understanding	
14	Students can understand, observing, communicating environmental pollution problem	Pollution Environment 1. Understanding Pollution 2. Water Pollution	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture:180 minutes • Q&A: 30 minutes • Discussion : 30 minutes • Presentation : 30 minutes <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments	Completeness and the truth explanation as well accuracy understanding	5
15	Students can understand, observing, communicating environmental pollution problem	Pollution Environment 1. Pollution Air 2. Pollution Land 3. Trash 4. B3	Lectures, questions and answers, and discussions	330min (0.375 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture:180 minutes • Q&A: 30 minutes • Discussion : 30 minutes • Presentation : 30 minutes <i>Individual tasks: 60 minutes/day (16 weeks)</i>	a. Students listen to the lecturer's explanation and answer the lecturer's questions, as well as discuss b. Discussion of the results of the previous week's group assignments	Completeness and the truth explanation as well accuracy understanding	5
16	Final Examination	Meeting Materials 1-15	Written test	330 minutes of processing time or the	Students working on UAS questions	Completeness and the truth	20

		(resume material)		equivalent of 0.25 ECTS		explanation as well collection time	
8.Reference List:		<ol style="list-style-type: none"> 1. Meffe, G. K and C. Ronald Carroll. 1994. Principles of Conservation Biology. Sinauer Associates, Inc. Sunderland Publishers, 2. Primack, RB 1993. Essentials of conservation Biology. Sinauer Associates, Inc. Sunderlan, Massachusetts. USA Sherwood, Lauralee. 					

