

MODUL FIELD WORK




MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATED STUDIES
DIPONEGORO UNIVERSITY

Modul Description :

Modul design	Field Work
Modul level, if applicable	
Code, if applicable	P-CIL-8-302
Subtitles, if any	
Course, if applicable	
Semester(s) in which the Modul is taught	3rd semester
Modul responsible*	Dr. Eng. Maryono, ST, MT.
Teaching Lecturer	1. Dr. Eng. Maryono, ST, MT. 2. Dr. Fuad Muhammad, SSi, Msi 3. Dr. Jafron Wasiq Hidayat, MSc
Language	<i>Indonesian and English</i>
Relationship with curriculum	Students are able to understand the position of science, scientific studies and scientific perspectives and philosophy of science through lectures and discussions
Type of teaching, hours of contact	<i>Lectures: 1 x 60 minutes x 16 meetings = 16 hours/week Q&A: 1 x 10 minutes x 16 meetings = 3 hours/week Discussion: 1 x 10 minutes x 16 meetings = 3 hours/week Presentation: 1 x 10 minutes x 16 meetings = 3 hours/week Individual assignments: 18 minutes/day = 1.5 hours/week Total work for 1 semester = 50 hours = 2 ECTS</i>
Workload	<i>(Estimated) workload, divided into contact hours (lectures, exercises, laboratory sessions, etc.) and personal study, including test preparation, specified in hours,¹and overall.</i>
credit points	<i>1 credits / 2 ECTS</i>
Requirements according to the exam regulations	<i>Lecture attendance of at least 75%</i>
Recommended prerequisites	
Modulthe desired learning objectives/outcomes	Students are able to understand environmental concepts related to case studies in environmental science that occur.

*Advanced lecture material conducted by the main supervisor, co-supervisors and students refers to the research topic.

Fill	Field Work courses provide additional insight for students to be able to understand the concept of case studies that occur and are related to environmental science.
Study and exam requirements and forms	<ul style="list-style-type: none"> • <i>Field Work Report</i>
Media used	<i>Powerpoint, youtube, website</i>
Reference	<ol style="list-style-type: none"> 1. Setiadi Dede. 2015. Introduction to Environmental Science. IPB Press. Bogor 2. Elanda Fikri. 2022. Toxic Hazardous Waste Management Monograph. Eureka Media Script. Purbalingga 3. Trihadiningrum Yulinah. 2016. B3 Hazardous and Toxic Waste Management. Technoscience - Graha Science. Yogyakarta 4. Sembel Dantje. 2015. Environmental Toxicology. ANDI Publisher. Yogyakarta

SEMESTER STUDY PLAN							
	Study program: Master of Environmental Science				Faculty: School of Postgraduate		
	Subject:	Field Work	Code: P-CIL-8-302	Credit:3 (2 ECTS)	smt:3		
Supporting lecturer:	1. Dr. Eng. Maryono, ST, MT. 2. Dr. Fuad Muhammad, SSi, Msi 3. Dr. Jafron Wasiq Hidayat, MSc						
Learning Outcomes Subject:	Students are able to analyze environmental problems around and apply environmental science as a solution to environmental problems						
Short Description of Courses:	The Field Work Course discusses the real practice of students in analyzing environmental issues around them and applying environmental science in solving environmental problems.						
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	Able to understand the purpose of MPA	Introduction/ Lecture contract	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> Lecture = 1x 60 minutes Q&A = 1 x 10 minutes Discussion = 1 x 10 minutes Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)	Discussion and Q&A	Activity	5
2	Able to understand the purpose of MPA	Introduction to MPAs: Purpose and Urgency	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> Lecture = 1x 60 minutes 	Discussion and Q&A	Activity	5

				<ul style="list-style-type: none"> • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>			
3	Establishment of MPA Organizational Structure	Establishment of MPA Organizational Structure	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>	Discussion and Q&A	Activeness and accuracy in establishing the MPA organizational structure	5
4	Determination of MPA Themes and Activities	Determination of MPA Themes and Activities	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>	Discussion and Q&A	Activities and final results of determining MPA Themes and Activities	5
5	Activity Plan Presentation	Activity Plan Presentation	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5

6	Activity Progress Report 1	Activity Progress Report1	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the draft activity progress report	5
7	Activity Progress Report 2	Activity Progress Report2	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the draft activity progress report	5
8	Activity Implementation Preparation Report 1	Activity Implementation Preparation Report 1	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the draft report on the implementation of activities	5
9	Activity Implementation Preparation Report 2	Activity Implementation Preparation Report 2	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes 	Discussion and Q&A	The activeness and accuracy of the preparation of the draft report on the implementation of activities	5

				<ul style="list-style-type: none"> • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks) 			
10	Mid Term Examination	In accordance with the agreement of the Lecturer to finalize the concept of implementing the Field Work	108 minutes is equivalent to 0.125 ECTS of workmanship	Readiness of students in preparing for Field Work activities and readiness of Field work locations	10		
11	Able to understand the guidelines for preparing the MPA report	Guidelines for Compiling an MPA Report	Presentation and discussion 108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)	Discussion and Q&A The activeness and accuracy of drafting the MPA report	5		
12	Able to provide data on the results of activities	Group 1 Report Presentation and Assistance	Presentation and discussion 108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)	Discussion and Q&A The activeness and accuracy of drafting the MPA report	5		
13	MPA Report	Group Report Presentation and Assistance2	Presentation and discussion 108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)	Discussion and Q&A The activeness and accuracy of drafting the MPA report	5		

14	MPA Report	Group Report Presentation and Assistance ³	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>	Discussion and Q&A	The activeness and accuracy of drafting the MPA report	5
15	MPA report and presentation	Presentation of the final results of MPA activities	Presentation and discussion	108 minutes (0.125 ECTS) Consist of: <ul style="list-style-type: none"> • Lecture = 1x 60 minutes • Q&A = 1 x 10 minutes • Discussion = 1 x 10 minutes • Presentation = 1 x 10 minutes <i>Individual Tasks (Self Work) = 1 x 18 minutes/day (16 weeks)</i>	Discussion and Q&A	Activeness and accuracy of drafting of the MPA report and presentation	10
16	Final Examination	Compilation of the final results of the MPA activity report		108 minutes of processing time is equivalent to 0.125 ECTS	Writing and Accuracy of report collection		15
8. Reference List:		<ol style="list-style-type: none"> 1. Setiadi Dede. 2015. Introduction to Environmental Science. IPB Press. Bogor 2. Fikri Elanda. 2022. Monograph on Management of Toxic Hazardous Waste. Eureka Media Script. Purbalingga 3. Trihadiningrum Yulinah. 2016. Management of Hazardous and Toxic Waste Materials B3. Teknosain – Graha Ilmu. Yogyakarta 4. Sembel Dantje. 2015. Environmental Toxicology. ANDI Publisher. Yogyakarta 					