

MODUL ENVIRONMENTAL IMPACT ANALYSIS




MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

Module Description:

Module Name	Environmental Impact Analysis
Module level, if applicable	
Code, if applicable	P-CIL-8-202
Subtitles, if any	
Course, if applicable	
Semester(s) in which the module is taught	Semester 2
Module responsible	Dwi P. Sasongko, M.Sc.
Teaching Lecturer	1. Dwi P. Sasongko, M.Sc. 2. Prof. Sudharto P. Hadi, MES, Ph. D
Language	<i>Indonesian and English</i>
Relationship with curriculum	
Type of teaching, hours of contact	<i>Lectures: 1 x 180 minutes x 16 meetings = 48 hours/week Q&A: 1 x 30 minutes x 16 meetings = 8 hours/week Discussion: 1 x 30 minutes x 16 meetings = 8 hours/week Presentation: 1 x 30 minutes x 16 meetings = 8 hours/week Individual assignment: 60 minutes/day = 5 hours/week Total work for 1 semester = 150 hours = 6 ECTS</i>
Workload	<i>(Estimated) workload, divided into contact hours (lectures, exercises, laboratory sessions, etc.) and personal study, including test preparation, specified in hours,¹ and overall.</i>
credit points	<i>3 Credits / 6 ECTS</i>
Requirements according to the exam regulations	<i>Lecture attendance of at least 75%</i>
Recommended prerequisites	<i>For example, competence in...</i>

<p>Modulethe desired learning objectives/outcomes</p>	<ul style="list-style-type: none"> • Students are able to explain in their own words the various meanings of EIA, Andal, RKL-RPL and various terms related to EIA. • Students are able to explain in their own words why Andal Studies is needed and who should do Andal. • Students are able to explain in their own words about the use/role of Andal. • Able to explain the Basic Concept of Andal and the procedures for its implementation in accordance with the applicable laws and regulations • Able to explain changes to Environmental Permits, Amendment Mechanisms and Procedures for Changing Environmental Permits • Able to predict and evaluate significant impacts (physical, chemical, biological, socio-economic and socio-cultural environmental impacts). • Able to prepare management and monitoring environmental impact plan (RKL-RPL) resulting from certain planned activities.
<p>Fill</p>	<p>The EIA course discusses the basic concepts and objectives of EIA, management of EIA and related regulations, implementation of EIA, preparation of EIA documents and related methodologies, as well as assessment of EIA document.</p>
<p>Study and exam requirements and forms</p>	<ul style="list-style-type: none"> • <i>Open the book and close the book</i> • <i>Multiple choice, case studies, interviews, practicals</i>
<p>Media used</p>	<p><i>Powerpoint, youtube, website</i></p>

Read reference	<ol style="list-style-type: none">1. Canter, LW 1996. "Environmental Impact Assessment", 2nd Edition. McGraw-Hill, New York.2. Soemarwotto, O. 2005. Environmental Impact Analysis. Gadjah Mada University Press, Yogyakarta.3. Suratmo, GF 1998. Environmental Impact Analysis, 8th Edition, Gadjah Mada University Press, Yogyakarta4. Ministry of Environment and Forestry. 2016. Sets Environmental Regulations.5. Glasson, J, and Therivel, R. 2019. Introduction to Environmental Impact Analysis. Routledge.
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SEMESTER STUDY PLAN							
		Study program: Master of Environmental Science			Faculty: School of Postgraduate		
Subject:		Environmental Impact Analysis	Code: P-CIL-8-202		Credit:3 (6 ECTS)		smt:2
Supporting lecturer:		1. Dr. Dwi P. Sasongko, M.Sc. 2. Prof. Sudharto P. Hadi, MES, Ph. D					
Learning Outcomes Subject:		<ul style="list-style-type: none"> • Students are able to explain in their own words various definitions of EIA, Andal, RKL-RPL and various terms related to EIA. • Students are able to explain in their own words why Study Andal is needed and who should do Andal. • Students are able to explain in their own words about the use/role of Andal. • Able to explain the Basic Concept of Andal and its implementation procedures in accordance with the applicable laws and regulations • Able to explain changes to Environmental Permits, Change Mechanisms and Procedures for Changes in Environmental Permits • Able to forecast and evaluate significant impacts (physical, chemical, biological, socio-economic and socio-cultural environmental impacts). • Able to prepare a management plan and environmental impact monitoring (RKL-RPL) resulting from certain activity plans. 					
Short Description of Courses:		The EIA course discusses the basic concepts and objectives of EIA, EIA management and related regulations, EIA implementation, preparation of EIA documents and related methodologies in it, and assessment of EIA documents.					
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	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</i> 	Understanding of EIA courses	Activity	5

		report face-to-face lectures		<i>minutes Individual tasks: 60 minutes/day (16 weeks)</i>			
2	Students are able to explain the meaning, process, and benefits of EIA for development activities.	<ul style="list-style-type: none"> History of Environmental Quality Management in the World and Indonesia History of EIA Development in Indonesia EIA Basic Concept 	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>	Students seek information from various sources (especially the Internet) about laws and regulations related to EIA	<ul style="list-style-type: none"> Presence Accuracy in explaining the history and development of EIA in Indonesia 	5
3	Students are able to interpret whether or not a business plan and/or activity is required to have an EIA document	<ul style="list-style-type: none"> Legislation related to EIA. Screening Process in EIA 	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. 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
4	Students are able to apply the process of preparing and evaluating EIA documents in accordance with	<ul style="list-style-type: none"> EIA Document Contents 	<ul style="list-style-type: none"> Group task Discussion Sharing 	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 	Students work in groups to work on the task of making	<ul style="list-style-type: none"> Presence Activeness in Discussion Accuracy in explaining Environment 	5

	applicable regulations in Indonesia.			<i>Individual tasks: 60 minutes/day (16 weeks)</i>	interpretations of laws and regulations regarding Environmental Documents in Indonesia	al Documents in Indonesia including the contents of the said documents	
5	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	<ul style="list-style-type: none"> • Procedure for compiling EIA documents 	<ul style="list-style-type: none"> • Group task • Discussion • Sharing 	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>	Students work in groups to work on the task of making interpretations of laws and regulations regarding Environmental Documents in Indonesia	<ul style="list-style-type: none"> • Presence • Activeness in Discussion • Accuracy in explaining Environmental Documents in Indonesia including the contents of the said documents 	5
6	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	<ul style="list-style-type: none"> • Scoping Process • Initial Environmental Baseline 	<ul style="list-style-type: none"> • Group task • Discussion • Sharing 	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>	Students work in groups to do the task of carrying out the scoping process based on the	<ul style="list-style-type: none"> • Presence • Activeness in Discussion • Accuracy in explaining the implementation of the 	5

					initial environmental baseline information and descriptions of the business plans and/or activities they previously collected.	scoping process in the EIA	
7	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	<ul style="list-style-type: none"> Description of Business and/or Activity Plan 	<ul style="list-style-type: none"> Group task Discussion Sharing 	<p>330min (0.375 ECTS)</p> <p>Consist of:</p> <ul style="list-style-type: none"> Lecture: 180 minutes Q&A: 30 minutes Discussion : 30 minutes Presentation : 30 minutes <p>Individual tasks: 60 minutes/day (16 weeks)</p>	Students work in groups to do the task of carrying out the scoping process based on the initial environmental baseline information and descriptions of the business plans and/or activities they previously collected.	<ul style="list-style-type: none"> Presence Activeness in Discussion Accuracy in explaining the implementation of the scoping process in the EIA 	5

8	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	<ul style="list-style-type: none"> • Impact Estimation Process 	<ul style="list-style-type: none"> • Group task • Discussion • Sharing 	150 minutes (0.375 ECTS)	Students work in groups to do the task of identifying impact forecasting methods	<ul style="list-style-type: none"> • Presence • Activeness in Discussion • Accuracy describes the impact forecasting method 	5
9	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	<ul style="list-style-type: none"> • Process of Forecasting Significance of Impact 	<ul style="list-style-type: none"> • Group task • Discussion • Sharing 	150 minutes (0.375 ECTS)	Students work in groups to do the task of identifying impact forecasting methods	<ul style="list-style-type: none"> • Presence • Activeness in Discussion • Accuracy describes the impact forecasting method 	5
10	Mid Term Examination	Meeting Material 1- 9	Written test	216 minutes of processing time or the equivalent of 0.25 ECTS	Students working on UTS questions	Quality of answers and timeliness of collection	10
11.	Students are able to apply the process of preparing and evaluating EIA documents in accordance with applicable regulations in Indonesia.	The process of preparing the Environmental Management Plan	<ul style="list-style-type: none"> • Group task • Discussion • Sharing 	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 Individual tasks: 60 minutes/day (16 weeks)	Students work in groups to do the task of preparing RKL RPL documents)	<ul style="list-style-type: none"> • Presence • Activeness in Discussion • Accuracy in explaining the RKL RPL payload 	5

12	Students are able to make the right decisions based on the data and information collected in the preparation and assessment of the EIA document.	<ul style="list-style-type: none"> EIA Document Assessment Procedures KA . Document Assessment 	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 Individual tasks: 60 minutes/day (16 weeks)	Students work in groups to do the task of assessing KA documents.	Completeness and the truth explanation as well accuracy understanding	5
13	Students are able to make the right decisions based on the data and information collected in the preparation and assessment of the EIA document.	<ul style="list-style-type: none"> EIA Document Assessment Procedures RKL RPL Document Assessment 	<ul style="list-style-type: none"> Group task Discussion Sharing 	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 Individual tasks: 60 minutes/day (16 weeks)	Students work in groups to do the task of assessing the RKL RPL document	<ul style="list-style-type: none"> Presence Activeness in Discussion Accuracy of explaining the results of the assessment 	5
14	Students are able to make the right decisions based on the data and information collected in the preparation and assessment of the EIA document.	<ul style="list-style-type: none"> EIA Document Assessment Procedures 	<ul style="list-style-type: none"> Group task Discussion Sharing 	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 Individual tasks: 60 minutes/day (16 weeks)	Students work in groups to do the task of assessing the ANDAL document.	<ul style="list-style-type: none"> Presence Activeness in Discussion Accuracy of explaining the results of the assessment 	5
15	Students are able to make the right decisions based on the data and information collected in the preparation and	<ul style="list-style-type: none"> ANDAL Document Assessment 	<ul style="list-style-type: none"> Group task Discussion Sharing 	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 	Students work in groups to do the task of assessing the	<ul style="list-style-type: none"> Presence Activeness in Discussion Accuracy of explaining the results of 	5

	assessment of the EIA document.			<i>Individual tasks: 60 minutes/day (16 weeks)</i>	EIA document.	the assessment	
16	Final Examination	Meeting Materials 1-15 (resume material)	Written test	330 minutes of processing time or the equivalent of 0.25 ECTS	Students working on UAS questions	Quality of answers and timeliness of collection	20
8.Reference List:		<ol style="list-style-type: none"> 1. Canter, LW 1996. "Environmental Impact Assessment", 2nd Edition. McGraw-Hill, New York. 2. Soemarwotto, O. 2005. Environmental Impact Analysis. Gadjah Mada University Press, Yogyakarta. 3. Suratmo, GF 1998. Environmental Impact Analysis, 8th Edition, Gadjah Mada University Press, Yogyakarta 4. Ministry of Environment and Forestry. 2016. Set of Regulations on the Environment. 					

