

MODUL THESIS



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

Modul Description :

Modul design	Thesis
Modul level, if applicable	
Code, if applicable	P-CIL-8-401
Subtitles, if any	
Course, if applicable	
Semester(s) in which the modul is taught	Semester 4
Modul responsible*	Principal Advisor
Teaching Lecturer	1. Principal Advisor 2. Co-Supervisor
Language	<i>Indonesian and English</i>
Relationship with curriculum	
Type of teaching, hours of contact	<ul style="list-style-type: none"> • <i>Routine meetings with Supervisors 16 times Weekly = 1 x 50 minutes</i> • <i>Regular meetings with co-supervisors 16 times Weekly = 1 x 50 minutes</i> • <i>Laboratory/studio regular activities 4 hours/day (16 weeks)</i> • <i>Conference/Seminar includes preparation and presentation = 5 hours/day (16 weeks)</i> <p><i>Total work for 1 semester = 288 hours = 30 ECTS</i></p>
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	6 credits / 30 ECTS
Requirements according to the exam regulations	<i>Lecture attendance of at least 75%</i>
Recommended prerequisites	
Modul the desired learning objectives/outcomes	<ul style="list-style-type: none"> • Students are able to write a thesis. • Students are able to present their thesis in the form of seminars

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

Fill	This course is the final course that students must take to obtain a Masters in Environmental Sciences degree.
Study and exam requirements and forms	<ul style="list-style-type: none"> • <i>Open the book and close the book</i> • <i>Multiple choice, case studies, interviews, practicals</i>
Media used	<i>Powerpoint, youtube, website</i>
Reference	<ol style="list-style-type: none"> 1. Kornuta Halyna, Germaine Ron. 2019. Quick Guide to Writing a Thesis or Dissertation. Routledge Educational and Further Research. 2. Evans David, Gruba Paul, Zobel Justin. 2014. How to Write a Better Thesis (Third Edition). Jumper. 3. Khoiyangbam, RS, and N Gupta. 2012. Introduction to Environmental Science. New Delhi: TERI 4. Bojie Fu, Yanxu Liu, Yan Li, Cong Wang, Changjia Li, Wei Jiang, Ting Hua, Wenwu Zhao, 2021, Research priorities in Resources and Environmental Sciences, Geography and Sustainability, Volume 2, Issue 2, Pages 87-94,https://doi.org/10.1016/j.geosus.2021.04.001. 5. Nikolai Attard, 2018, WASP (Write Scientific Papers): Writing an academic research proposal, Early Human Development, Volume 123, Pages 39-41,https://doi.org/10.1016/j.earlhumdev.2018.04.011.

SEMESTER STUDY PLAN



Study program: Master of Environmental Science

Faculty: School of Postgraduate

Subject:		Thesis	Code: P-CIL-8-401	Credit:6 (30 ECTS)	smt:4		
Supporting lecturer:		Supervisor Co.Supervisor					
Learning Outcomes		Able to produce scientific works that are published, original, and have implications for the advancement of environmental science in accordance with the expertise of students and supervisors.					
Subject:							
Short Description of Courses:		This course is the final course that students must take to get a Masters in Environmental Science.					
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	Understand the basic concepts of thesis writing	Fundamental concepts regarding the	Discussion and Q&A	640 minutes (1,875 ECTS) Consist of:	Discussion and Q&A	The activeness and accuracy of the	5

		implementation of Thesis		<ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 		preparation of the thesis draft.	
2	Understand the standards, manuals, and guidelines for the implementation of theses	Understand the standards, manuals, and guidelines for the implementation of theses	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
3	Able to analyze research problems and topics	Analysis of research problems and topics	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Se 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	10

				minar (Self Work) = 5 hours/day (16 weeks)			
4	Able to find and explain research gaps	Guidance and evaluation related to specific topics that have narrowed the research gap	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
5	Able to express original research ideas and give appreciation to intellectual property	Originality of writing and respect for intellectual property	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	10
6	Able to explain originality and research position	Guidance and evaluation related to research originality	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5

				<p>Supervisor/Co. Supervisor = 2x 50 minutes</p> <ul style="list-style-type: none"> laboratory/studio = 4 hours/day Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 			
7	Able to explain data collection methods and their justification	Techniques for carrying out field datacollection	Discussion and Q&A	<p>640 minutes (1,875 ECTS)</p> <ul style="list-style-type: none"> Discussion Supervisor/Co. Supervisor = 2x 50 minutes laboratory/studio = 4 hours/day Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
8	Mid Term Examination	Can be done in accordance with the agreement with the supervisor, including Mid Term Examination is the implementation of Thesis Report Writing		640 minutes Equivalent to 1,875 ECTS	Complete the revision results during thesis assistance with Supervisor/Co.Supervisor		5
9	Conducting guidance and research progress	Guidance and evaluation of the latest developments in field data collection	Discussion and Q&A	<p>640 minutes (1,875 ECTS)</p> <ul style="list-style-type: none"> Discussion Supervisor/Co. Supervisor = 2x 50 minutes 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5

				<ul style="list-style-type: none"> • <i>laboratory/studio</i> = 4 hours/day • <i>Conference/Seminar (Self Work)</i> = 5 hours/day (16 weeks) 			
10	Able to explain data processing techniques and justification for selecting data processing software	Data processing techniques with software	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • <i>Discussion Supervisor/Co. Supervisor</i> = 2x 50 minutes • <i>laboratory/studio</i> = 4 hours/day • <i>Conference/Seminar (Self Work)</i> = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
11	Conducting guidance and research progress	Guidance and evaluation of the development of data processing with software	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • <i>Discussion Supervisor/Co. Supervisor</i> = 2x 50 minutes • <i>laboratory/studio</i> = 4 hours/day • <i>Conference/Seminar (Self Work)</i> = 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5

				5 hours/day (16 weeks)			
12	Able to explain the results of data analysis and interpretation	Data statistics and interpretation	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
13	Conducting guidance and research progress	Guidance and evaluation related to statistical data results and interpretation	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
14	Able to compile a thesis report	Writing a thesis report	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	10

				<p>2x 50 minutes</p> <ul style="list-style-type: none"> • laboratory/studio =m/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 			
15	Able to compile a thesis report to be tested	Writing a thesis report	Discussion and Q&A	<p>640 minutes (1,875 ECTS)</p> <ul style="list-style-type: none"> • Discussion Supervisor/Co. Supervisor = 2x 50 minutes • laboratory/studio = 4 hours/day • Conference/Seminar (Self Work) = 5 hours/day (16 weeks) 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
16	Final Examination	Can be done in accordance with the agreement with the supervisor, including UAS is the implementation of the Final Thesis Examination		<p>640 minutes Equivalent to 1,875 ECTS</p>	Complete Thesis data		20
8. Reference List:		<p>1. Kornuta Halyna, Germaine Ron.2019. Quick Guide to Writing a Thesis or Dissertation. Routledge Educational Research and Beyond</p> <p>2. Evans David, Gruba Paul, Zobel Justin. 2014. How to Write a Better Thesis (Third Edition). Jumper</p> <p>3. Khoiyangbam, RS, and N Gupta. 2012. Introduction to Environmental Science. New Delhi: TERI</p> <p>4. Bojie Fu, Yanxu Liu, Yan Li, Cong Wang, Changjia Li, Wei Jiang, Ting Hua, Wenwu Zhao, 2021, Research priorities for Resources and Environmental Science, Geography and Sustainability, Volume 2, Issue 2, Pages 87-94,https://doi.org/10.1016/j.geosus.2021.04.001.</p>					

5. Nikolai Attard, 2018, WASP (Write Scientific Paper): Writing an academic research proposal, Early Human Development, Volume 123, Pages 39-41, <https://doi.org/10.1016/j.earlhumdev.2018.04.011>.

