



SEMESTER STUDY PLAN

Study program: Master of Environmental Science

Faculty: Graduate School

Subject:		Thesis	Code: P-CIL-8-401		Credit:6 (30 ECTS)		Sem:4	
Supporting lecturer:		Supervisor Co-supervisor						
Learning Outcomes Subject:		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.						
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	Time	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)	Discussion and Q&A	The activeness and accuracy of the	5	

		implementation of Thesis		Consist of: <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 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	10

				<ul style="list-style-type: none"> • <i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i> 			
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"> • <i>Discussion Supervisor/Co. Supervisor = 2x 50 minutes</i> • <i>laboratory/studio = 4 hours/day</i> • <i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i> 	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"> • <i>Discussion Supervisor/Co. Supervisor = 2x 50 minutes</i> • <i>laboratory/studio = 4 hours/day</i> • <i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i> 	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 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
7	Able to explain data collection methods and their justification	Techniques for carrying out field data collection	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
8	UTS	Can be done in accordance with the agreement with the supervisor, including UTS 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	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	5

		developments in field data collection		<i>Supervisor/Co. Supervisor = 2x 50 minutes</i> <ul style="list-style-type: none"> • <i>laboratory/studio = 4 hours/day</i> • <i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i> 		preparation of the thesis draft.	
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 = 2x 50 minutes</i> • <i>laboratory/studio = 4 hours/day</i> • <i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i> 	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 = 2x 50 minutes</i> • <i>laboratory/studio = 4 hours/day</i> • <i>Conference/Seminar (Self</i> 	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5

				Work) = 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) • 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) • 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) • Discussion Supervisor/Co.	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	10

				<i>Supervisor = 2x 50 minutes</i> <ul style="list-style-type: none"><i>laboratory/studio =</i><i>conference/Seminar (Self Work) =</i> <i>5 hours/day (16 weeks)</i>			
15	Able to compile a thesis report to be tested	Writing a thesis report	Discussion and Q&A	640 minutes (1,875 ECTS) <ul style="list-style-type: none"><i>Discussion Supervisor/Co. Supervisor = 2x 50 minutes</i><i>laboratory/studio = 4 hours/day</i><i>Conference/Seminar (Self Work) = 5 hours/day (16 weeks)</i>	Discussion and Q&A	The activeness and accuracy of the preparation of the thesis draft.	5
16	UAS	Can be done according to the agreement with the supervisor, including UAS is the implementation of the Final Thesis Examination	640 minutes Equivalent to 1,875 ECTS	Complete Thesis data		20	
8. Reference List:		<div>1. Kornuta Halyna, Germaine Ron.2019. Quick Guide to Writing a Thesis or Dissertation. Routledge Educational Research and Beyond</div> <div>2. Evans David, Gruba Paul, Zobel Justin. 2014. How to Write a Better Thesis (Third Edition). Jumper</div> <div>3. Khoiyangbam, RS, and N Gupta. 2012. Introduction to Environmental Science. New Delhi: TERI</div>					

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| | <ol style="list-style-type: none">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.2021.04.001.5. 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. |
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