## SEMESTER STUDY PLAN Study program: Master of Environmental Science **Faculty: Graduate School** Subject: Research II Code: Credit:6 Shem:2 CIL-8-234 (13 ECTS) Supervisor **Supporting lecturer:** Co-supervisor **Learning Outcomes** • Students are able to compose or design (C6) research II in one of the research fields (Abiotic, Biotic and Cultural). • Students are able to explain (C2) the linkage of components A (Abiotic), B (Biotic) or C (Culture) in the development of Subject: environmental science and or solving environmental problems. • Students are able to analyze (C4) one of the components of A (Abiotic), or B (Biotic), or C (Culture) in the development of environmental science and or solving environmental problems. • Students are able to arrange (C6) research II on one of the components A (Abiotic), or B (Biotic), or C (Culture) in the development of environmental science and or solving environmental problems. **Short Description of Courses:** This Research II course discusses the preparation of research II emphasizing the observation of component A (Abiotic), or component B (Biotic) and component C (Culture) in the development of environmental science and or solving environmental problems. 2 6 1 3 5 7 **Evaluation** Final Ability of each Study Materials/ **Student Learning** Week **Learning methods** Time Criteria & Weight Subjects Experience learning stage **Indicators** (%) Able to explain and Fundamental Discussion, Field and 220minutes Discussion and Q&A Activeness and 5 **Laboratory Practice** prepare the concept of (0.8125 ECTS) Punctuality implementation of research Consist of: research 2 implementation Discussion Supervisor/Co.Supervisor = 2x 50 minutes • Laboratory/studio = 2 hours/day

220 minutes

(0.8125 ECTS)

Discussion

Discussion and Q&A

Activeness and

Punctuality

5

2.

Able to carry out research

II. collect field data

Understand the

standards,

manuals, and

Discussion, Field and

Laboratory Practice

		guidelines for		Supervisor/Co.Supervisor			
		conducting		= 2x 50 minutes			
		research II	1	<ul><li>Laboratory/studio =</li></ul>			
		and the same	0	2 hours/day			
3.	Able to analyze field data-	Analysis of	Discussion, Field and	220 minutes	Discussion and Q&A	Activeness and	5
	Regional profile assistance	problems in	<b>Laboratory Practice</b>	(0.8125 ECTS)		Punctuality	
		topics based on	( N )	• Discussion			
		field conditions	N .	Supervisor/Co.Supervisor			
		11 15/4	1	= 2x 50 minutes	l.		
			All 25	<ul><li>Laboratory/studio =</li></ul>	N.		
		0 477		2 hours/day	W		
4.	Able to classify field data	Research	Discussion, Field and	220 minutes	Discussion and Q&A	Activeness and	5
	//	guidance and	Laboratory Practice	(0.8125 ECTS)	1 N	Punctuality	
	//	evaluation	N. H. 141	Discussion	f. W		
	//	includes research		Supervisor/Co.Supervisor	B %		
	_//	preparation and	Z W 11/	= 2x 50 minutes	- N		
	W	implementation		• Laboratory/studio =	$r \sim r$		
	1. '	techniques		2 hours/day			
5.	Able to analyze	Research	Discussion, Field and	220 minutes	Discussion and Q&A	Activeness and	5
	components A (Abiotic) ,	guidance and	Laboratory Practice	(0.8125 ECTS)		Punctuality	
	or B (Biotic) , or C	evaluation		<ul> <li>Discussion</li> </ul>			
	(Culture)	includes research		Supervisor/Co.Supervisor			
	W	preparation and	77 7 11	= 2x 50 minutes			
	N	implementation		<ul><li>Laboratory/studio =</li></ul>			
	10.	techniques		2 hours/day			
6.	Able to analyze field data-	Research	Discussions, Field and	220 minutes	Discussion and Q&A	Activeness and	5
	Comprehensive analysis	guidance and	Laboratory Practices	(0.8125 ECTS)		Punctuality	
	assistance	evaluation	and presentations	Discussion			
	1	includes research		Supervisor/Co.Supervisor			
	1	preparation and	-0000	= 2x 50 minutes	//		
		implementation		<ul><li>Laboratory/studio =</li></ul>	//		
		techniques	7	2 hours/day	7		
7.	Able to analyze field data-	Research	Discussions, Field and	220 minutes	Discussion and Q&A	Activeness and	5
	Assistance on study	guidance and	Laboratory Practices	(0.8125 ECTS)		Punctuality	
	findings	evaluation	and presentations	<ul> <li>Discussion</li> </ul>			
		includes research		Supervisor/Co.Supervisor			
		implementation		= 2x 50 minutes			

		and research data		• Laboratory/studio = 2 hours/day				
8.	UTS	Can be done in accordance with the agreement with the supervisor including the implementation of Conferences and Seminars Equivalent to 40 working hours						
9	Able to analyze the relationship of field data	Research guidance and evaluation includes research implementation and research data	Discussion, Practice Field and Laboratory and presentation	220 minutes (0.8125 ECTS)  • Discussion Supervisor/Co.Supervisor = 2x 50 minutes  • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	5	
10	Able to analyze data linkages including components A (Abiotic), or B (Biotic), or C (Culture) by solving environmental problems observed based on theories	Guidance and evaluation of the latest developments in field data analysis	Discussion and Q&A	220 minutes (0.8125 ECTS)  • Discussion Supervisor/Co.Supervisor = 2x 50 minutes  • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	10	
11	Able to analyze field data analysis-Review the completeness of the draft discussion session	Research data processing techniques II	Discussion and Q&A	220 minutes (0.8125 ECTS) • Discussion Supervisor/Co.Supervisor = 2x 50 minutes • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	10	
12	Able to prepare review data for the completeness of the discussion session draft	Guidance and evaluation of the development of data processing with software	Discussion and Q&A	220 minutes (0.8125 ECTS)  • Discussion Supervisor/Co.Supervisor = 2x 50 minutes  • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	10	
13	Able to interpret field data	Data statistics and interpretation	Discussion and Q&A	220 minutes (0.8125 ECTS) • Discussion Supervisor/Co.Supervisor = 2x 50 minutes	Discussion and Q&A	Activeness and Punctuality	10	

				• Laboratory/studio =			
				2 hours/day			
14	Able to interpret field data and analyze data linkages based on theories	Guidance and evaluation related to statistical data results and interpretation	Discussion and Q&A	220 minutes (0.8125 ECTS) • Discussion Supervisor/Co.Supervisor = 2x 50 minutes • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	10
15	Able to write research report II	Report writing	Discussion and Q&A	220 minutes (0.8125 ECTS) • Discussion Supervisor/Co.Supervisor = 2x 50 minutes • Laboratory/studio = 2 hours/day	Discussion and Q&A	Activeness and Punctuality	10
16	UAS	Can be done in accordance with the agreement with the supervisor including the implementation of Conferences and Seminars Equivalent to 46 working hours					
8.Refer	rence List:	<ol> <li>Khoiyangbam</li> <li>Bojie Fu, Yan         Resources a         94,https://do</li> <li>Nikolai Attaro</li> </ol>	www.hzu.edu.in/bed/E%, RS, and N Gupta. 2012. xu Liu, Yan Li, Cong Wand Environmental Si.org/10.1016/j.geosus.2	Introduction to Environmenta ang, Changjia Li, Wei Jiang, Ti Sciences, Geography and	al Sciences. New Delhi: Te ing Hua, Wenwu Zhao, 2 Sustainability, Volume icademic research propo	ERI 2021, The research p e 2, Issue 2, I	Pages 87-

