# SEMESTER STUDY PLAN

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| **Study program: Master of Environmental Science** | | | **Faculty: Graduate School** | | | | |
| **Subject:** | **Research Proposal 2** | **Code:** P-CIL-8-132 | | **Credit: 3 (6 ECTS)** | | **Sem:1** | |
| **Supporting lecturer:** | **Supervisor**<br>**Co-supervisor** | | | | | | |
| **Learning Outcomes Subject:** | The general learning objective of this course is that students are able to compile or design (C6) a research proposal in one of the research fields (abiotic, biotic, culture) which will be carried out during the master by research program.<br>• Students are able to explain (C2) the linkage of components A (Abiotok) , or B (Biotics) , or C (Culture) in the development of environmental science and or solving environmental problems.<br>• 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.<br>• Students are able to prepare (C6) a research proposal on one of the components A (Abiotok) , or B (Biotics) , or C (Culture) in the development of environmental science and or solving environmental problems. | | | | | | |
| **Short Description of Courses:** | This course discusses the preparation of research proposals for the master's degree in environmental science by research. This research proposal 2 emphasizes component A (Abiotic), or Component B (biotic) or component C (Culture) in the development of environmental science and or solving environmental problems. | | | | | | |

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| **Week** | **Final Ability of each learning stage** | **Study Materials/ Subjects** | **Learning methods** | **Time** | **Student Learning Experience** | **Evaluation** | |
| | | | | | | **Criteria & Indicators** | **Weight (%)** |
| 1. | Students understand the introduction to research proposals 2 | Introduction to Research proposal:<br>Explanation of the importance of the integration of components A (Abiotok) , or B (Biotics) , or C | Lectures, questions and answers, and discussions | 160 minutes (0.375 ECTS)<br>Consist of:<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1* | Students know the lecture system | Activity | 2.5 |

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| | | (Culture) in the development of environmental science and or solving environmental problems. | | *hour/day* | | | |
| 2 | Students understand the research theme | Brainstorming research themes:<br>two-way discussion of research plans and areas of interest | Lectures, questions and answers, and discussions | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Research theme discussion/ Thesis | Criteria:<br>Student activity | 2.5 |
| 3 | Students get approval for conducting research | Approval of research/thesis implementation | Lectures, questions and answers, and discussions | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Lectures and Discussions | Criteria:<br>Student activity | 2.5 |
| 4 | Students have a research theme | Research theme sharing | discussion | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Discussion and sharing of research themes | Student presentations and activities | 2.5 |
| 5 | Students have a research theme/title | Approval of research theme/title | Discussion and Q&A | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Discussion and approval of research theme/title | Student activity | 5 |
| 6 | Students develop the background, formulation, | Delivery Background, Formulation of | Lectures, questions and | 160 minutes (0.375 ECTS)<br>• *Discussion* | Lectures, questions and | Completeness and the truth explanation as well | 5 |

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| | objectives and research design framework | objectives, research design framework | answers, and discussions | *Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | answers, discussions | accuracy understanding of Research background | |
| 7 | Students are able to compile literature in a thesis research proposal | Submission of proposals: Discussion literature review | Lectures, questions and answers, and discussions | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | a. Students listen to the lecturer's explanation and actively search for Thesis literature<br>b. Discussion of literature search results | Student activity | 10 |
| **8** | **UTS** | **Can be done according to an agreement with the Advisory Lecturer including UTS is the preparation of a Proposal Seminar** | | **160 minutes (0.375)** | **Completeness Documents, supporting data for research proposals and timeliness** | | **10** |
| 9 | Students determine the research method | Submission of proposals: Agreement on Research Methods | Lectures, questions and answers, and discussions | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Discussion of research methods | Agreed research method | 10 |
| 10 | Students understand sampling and data analysis techniques | Submission of proposals: Statistical rules and sampling in qualitative and quantitative research and data analysis | Lectures, questions and answers and discussions | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Discussion of sampling techniques and data analysis | Agreed sampling technique and data analysis | 10 |
| 11 | Students are able to complete proposals according to the format | Submission of proposals: Completeness/Format of the proposal report | Lectures, questions and answers, | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Superv* | Complete the proposal according to the format | Complete proposal according to the format | 10 |

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| | | | and discussions | *isor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | | | |
| 12 | Students get proposal approval | Submission of proposals: Approval of the proposal by the supervisor | discussion | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Student activity in discussion | Research proposal approved by supervisor | 10 |
| 13 | Students are eligible to take the proposal exam | Proposal testing: Eligibility of the research proposal examination trial | Q&A and discussion | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Activities in discussion | Eligibility of research proposal exam | 10 |
| 14 | students carry out the proposal exam | Proposal testing: Implementation of the proposal exam | Presentation, discussion, and Q&A | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Presentation and discussion | Pass the proposal exam | 10 |
| 15 | Students carry out revisions and finalization of research proposals | Revision and finalization of research proposals | Q&A and discussion | 160 minutes (0.375 ECTS)<br>• *Discussion Supervisor/Co.Supervisor = 2x 50 minutes*<br>• *laboratory/studio = 1 hour/day* | Student activities in revising and finalizing proposals | Revised proposal | 10 |
| **16** | **UAS** | **Can be done according to the agreement with the Advisory Lecturer including UAS is the implementation of the Proposal Seminar** | | **160 minutes (0.375 ECTS)** | **Completeness Documents and data supporting the research proposal** | | **10** |
| **8.Reference List:** | | • YK Sing, Environmental Science, 2006, New Age International Publisher. Access fromhttps://www.hzu.edu.in/bed/E%20V%20S.pdf | | | | | |

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- Bojie Fu, Yanxu Liu, Yan Li, Cong Wang, Changjia Li, Wei Jiang, Ting Hua, Wenwu Zhao, 2021, The research priorities of Resources and Environmental Sciences, Geography and Sustainability, Volume 2, Issue 2, Pages 87-94,https://doi.org/10.1016/j.geosus.2021.04.001.
- Nikolai Attard, 2018, WASP (Write a 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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