

Module Description

Specialization Project 2 (VP2)

General Information**Module Code**

GEO_Proj2

Module Category

Specialization

Lessons

Projekt work with individual supervisor meetings

ECTS

12

Module Language

English

Projects can be completed in German or English (defined at the start of the project in discussion with the project supervisor)

Module Description

More than half of the MSE consists of project-based learning in the chosen topic fields. Students complete demanding applied research projects to apply and extend their theoretical and practical knowledge of a selected topic within the field of Geomatics.

The Specialization Project 2 is the second study project. The experience of the specialization project 1 is used to define the research plan and implement the research project more efficiently and focussed. The students are given a general description of the project's topic or problem area, including some pointers to relevant literature. The topics/problems are generally related to ongoing or future research projects at the Institute of Geomatics. Based on the topic description, the students review the state-of-the-art of the topic area and define their specific research questions. The literature review and research questions together with a description of the intended research methods as well as a project management plan is described in the research plan. The research plan is used to discuss the planned project work with the supervisors and, if the supervisor agrees, to work on and complete the project accordingly in the given time frame.

Learning Objectives, Contents, Methods**Learning Objectives and Acquired Competences**

- The students complete a demanding applied research project individually. They review the state of the art, define suitable research questions and relevant methods, implement the research project, document the results, and evaluate their findings in the light of the research questions and the overall state of the art in the topic area. Each project aims at adding some new knowledge to the topic area concerned.
- The students implement suitable project management methods to complete and document the project in the given time frame.
- The students manage the communication of their project and stay in contact with their supervisors.

Module Contents

- The students analyse a topic area of an applied research question or problem and review the state of the art of the topic area
- The students define their specific research questions based on the literature review and analysis of the topic area
- The students evaluate the suitability of different approaches and solutions and define and implement selected methods to complete their applied research project and to find answers to their research questions
- The students define and write up their research plan including state of the art review, research questions, methodology and project management plan – to be agreed upon by the supervisor
Finalised and agreed upon research plan available by mid semester the latest (it is recommended to finalise the research plan by semester week 05 to have enough time for the actual project implementation as well as documentation)
- The students implement their research project based on the research plan in the available timeframe.
- The students evaluate their results regarding the defined research questions and the overall state of the art of the topic area. Where do the results add something (what) to the existing knowledge in the topic area?
- The students document their progress and the results suitably in a technical-scientific report
- The students present their project to a professional audience.

Teaching and Learning Methods

Individual project work

Coaching by project supervisor (a minimum of two project meetings between supervisor and student is required)

Requirements

Successfully completed module GEO_Proj1

Assessment**Testat Requirements**

- Minimum of two projects meetings with thesis supervisor
- Finalised research plan available by mid semester (SW07)
- Suitable written technical-scientific documentation of the project submitted by given deadline
- Use of personal server space (S:\HABG\E1311_MSE\E1311_GIT_MSExxx) for project work, data storage, and revised project submission. Submit all relevant files of your work in a useful and documented folder structure on your personal storage space. This includes all original files of PDFs and reports, such as word or ppt files as well as the original graphic files as separate files.

Final Module Assessment

According to Module Assessment Form, regarding content, form, and oral presentation of the project