



HÖGSKOLAN I GÄVLE

Degree project for a MSc of science/technology with major in geomatics 15 cr

Examensarbete för filosofie/teknologie magister i geomatik 15 hp

Set by Board of Technology and Built Environment

Version

Set at

Valid from

5/27/09

VT2009

Level	A1E
Education level	Second cycle
Course identifier	SB299D
Credits	15 cr
Main field of study	Geomatics
Subject group	Geographic Information Technology and Surveying
Disciplinary domain	Technology 100.0 %

Learning outcomes

The course is designed to give the student deepened knowledge in the subject geomatics and is one of the requirements for obtaining a master's of science/technology (one year) with a major in geomatics.

On completion of the course, the student has shown ability to:

- independently plan, execute and present a scientific degree project in the field of geomatics
- demonstrate good proficiency in oral and written communication
- write a thesis in accordance with established scientific rules (i.e., following IMRaD style, etc.)
- show good competence in information literacy. This includes both understanding scientific literature in geomatics as well as using it properly in the thesis. Based on the scientific literature and the findings in the project the student must contribute to the subject areas accumulated knowledge.
- produce a poster (similar to conference posters) containing the main findings of the degree project.

Course content

Independent work, corresponding to 10 weeks of full-time work, where earlier knowledge

acquired in previous courses is applied.

- Project proposal
- Literature study
- Studies and/or field work related to the specific project
- Report writing
- Poster production
- Defense of thesis
- Opposition of other student's thesis

Teaching

Project supervision, seminars.

The supervisor(s) is appointed in consultation with the Head of the Geomatics division. The supervisor must be involved during the writing of the project proposal, in order to make arrangement, content and limitations of the project and thesis in agreement with the requirements of extent and academic depth of the thesis, as well as during planning of the work. The supervisor helps the student to get familiar with scientific thinking and method. A time schedule is made and the supervisor should be engaged in the work enough to certify that the work is progressing according to the intended time schedule. More than one supervisor may be appointed depending on the content of the project. If the project is carried through in the business world or similar, the practical part of the supervision may be carried out there. The scientific supervision is normally received from the university.

Prerequisites

Approved courses of minimum 30 credits in the master's programme.

Examination

Project proposal, Halfway seminar, Thesis report, Oral presentation, Opposition, Poster.

To pass the course, all above given examination parts must have been passed.

An examiner is appointed by the Head of the Geomatics division. The examiner is responsible to examine that the thesis is fulfilling the requirements set by the university. Before the degree project work starts, the examiner is responsible for judging the content and scientific depth of the proposed project. For this, the application form "Masters Thesis (D level) application, 15 hp" is used. Finally, the examiner is completing the examination and decides if the thesis, the presentation of the thesis, and the defense of the thesis is up to standards of the university. If so, the thesis is approved and graded by the examiner.

Grade

A, B, C, D, E, Fx, F

Limitations

For degree project work performed in industry or equivalent, rights to e.g. patents and ownership have to be stated in a written agreement before starting the work. After examination and approval of the examiner, the thesis is official and treated as a public document. The degree of publicity may be limited partly or totally by means of an agreement of confidentiality. Such an agreement of confidentiality is made with the University of Gävle, normally at the time when the project is formulated. However, a minimum requirement is that the official part of the thesis consists of an abstract written in both Swedish and English.

Other regulations

The report is written in Either Swedish or English with abstracts in both Swedish and English. If the work is confidential, the thesis has to be presented in two versions. One complete version is presented to the examiner and supervisors, and another version to the public where confidential parts are omitted.

The thesis is defended publicly in a seminar. At the same occasion, an A2 poster over the research project must be provided. The student must also act as an opponent of another thesis and be present at presentations of at least another two theses before graduating. These activities are noted in a personal examination record (the Green Book) by the examiner in duty.

Sustainable environment

Content with sustainable development is not relevant to this course.

Module			
	0020	Project proposal	1 cr Grade: UG
	0030	Halfway seminar	3 cr Grade: UG
	0040	Thesis report	8 cr Grade: UG
	0050	Oral presentation	1 cr Grade: UG
	0060	Opposition	1 cr Grade: UG
	0070	Poster	1 cr Grade: UG