AG2925 Geodata Quality 3.0 credits

Geodata-kvalitet

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for AG2925 valid from Autumn 2014

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Built Environment

Specific prerequisites

For admitted students to the Master of Science in Civil Engineering and Urban Management (CSAMH) or the Master of Science in Transport and Geoinformation Technology (TTGTM), there are no additional requirements.

For other students:

- A completed bachelor's degree in civil engineering, urban planning, geomatics, geography, engineering physics, computer science, statistics, economics, and/or mathematics, including at least 6 university credits (hp) in each of the following or their equivalents: Linear Algebra, Calculus in One Variable, and Probability & Statistics; and
- Documented proficiency in English corresponding to English B

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completing this course, students should understand different quality aspects of geodata, be able to make statistical analysis of geodata measurements and perform adjustment calculations using least squares method.

Course contents

- Data quality: precision, accuracy and reliability

- Errors, standard errors and error propagation

- Adjustment by elements

- Gross error detection

Disposition

Lectures 14h
Laboration 20h
Written examination

Examination

- LAB1 - Laboratory Work, 1.0 credits, grading scale: P, F
- TEN1 - Written Examination, 2.0 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Written exam (TEN1; 2,0 cr) (A/B/C/D/E/FX/F)
Approved laboration (LAB1; 1.0 cr) (P/F)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.