AG2423 Digital Photogrammetry 7.5 credits

Digital fotogrammetri

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

Establishment

Course syllabus for AG2423 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Analytical Photogrammetry.

Language of instruction

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

Intended learning outcomes

Knowledge and skill to be able to work with digital photogrammetry for development or production.

Course contents

Digital image capture. Image scanners. Digital photogrammetric workstations with software. Manual, interactive and automated procedures. Point, edge and feature extraction. Image segmentation. Area-, edge and relational matching. Resampling incl. digital orthophoto. Image and model orientation, area and elevation model measurement and three-dimensional object reconstruction for topographic and non-topographic applications. Image sequence measurements. Integration with GIS and CAD systems.

Course literature

Mikhail, Berthel and McGlone. Introduction to Modern Photogrammetry. Wiley & sons.

Examination

- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 3.0 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.

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

Other requirements for final grade

Examination (TEN1; 4,5 cr). Laboratory work (LAB1; 3 cr).

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.