



AG1321 Remote Sensing Technology 7.5 credits

Fjärranalysteknik

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 AG1321 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Built Environment, Technology

Language of instruction

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

Intended learning outcomes

At the end of the course, students should have a good knowledge on how to acquire different types of remote sensing imagery and the basic algorithms to process and analyze remotely sensed images. Students should also be capable of undertaking basic digital image analysis.

Course contents

- Introduction to Remote Sensing & Electromagnetic Radiation
- Photographic Sensors & Image Interpretation
- Remote Sensing: Digital Data
- Earth Observation Satellites
- Thermal Remote Sensing
- Radar Remote Sensing
- Digital Image Enhancement
- Digital Image Classification
- Remote Sensing Applications: Selected Examples

The course is composed of lectures, laboratory exercises, readings and student presentations.

Disposition

The course is composed of lectures, laboratories, readings and student presentations.

Specific prerequisites

AG1311 Graphic Information System or equivalent

Course literature

Lillesand, T. M. and R. W. Kifer. 2004. Remote Sensing and Image Interpretation, 5th edition, John Wiley and Sons, Inc., New York.

Examination

- LAB1 - Laboratory Task, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 4.5 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; 4.5cr)

Approved laboratory reports (LAB1; 3cr)

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.