



AG2426 Mobile GIS 7.5 credits

Mobile GIS

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 AG2426 valid from Autumn 2010

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

Furthermore, AG2411 GIS Architecture and Algorithms or equivalent

Language of instruction

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

Intended learning outcomes

The goal of this course is to provide you with practical skills in the use of cutting edge Mobile GIS technologies. The specific goals are:

- Understand basic GPS and Mobile GIS concepts
- Utilize professional and resource grade GPS devices and mobile CE devices
- Effectively use ESRI Mobile GIS software and Trimble GPS Correct software
- Manage and organize geospatial field data
- Create custom mobile forms for efficient field data entry
- Sync mobile devices with an enterprise system
- Successfully manage Mobile GIS projects
- Integrate field data with ArcGIS for map making and spatial analysis

Course contents

- Understanding the principles of Mobile GIS
- Basics of ESRI ArcPad Mobile GIS
- Data collection with GPS/Mobile GIS receivers
- Creating real-time GPS based shapefiles using ArcPad
- Integrating Mobile GIS/GPS data with ArcGIS software
- Usability of Mobile GIS

Disposition

Lectures 20h
Laboration 18h
Project

Course literature

The course literature will be posted on the course's homepage at least four weeks before the course starts.

Examination

- LAB1 - Laboratory Work, 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

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.