

SYLLABUS

GIS, CAD and Image Processing 7.5 credits O7010K

GIS, CAD och bildbehandling

Course syllabus admitted: Spring 2013 Sp 3 - Spring 2013 Sp 4

**DECISION DATE
2012-11-09**

GIS, CAD and Image Processing 7.5 credits O7010K

GIS, CAD och bildbehandling

Second cycle, O7010K

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Malmgeologi	Earth Science and Physical Geography

Entry requirements

90 credits in geoscience.

Selection

The selection is based on 30-285 credits

Examiner

Glenn Bark

Course Aim

Main aims of the course: 1)to be able to use the most common tools for treatment of spatial data with special emphasis on geological data 2)to be able to use the most common tools for 3-dimensional geological and geophysical information with special emphasis on mining geology 3)to be able to process geophysical data

Contents

The basics in i ArcGIS (GIS), possibly other GIS-programmes The basics in Microstation (CAD), possibly other CAD-programmes The basics in Geosoft (Geophysical processing), possibly other geophysical interpretation software The basics of digital cartography The basics of digital mine mapping Excursions to mining and exploration companies and the geological survey of Sweden with emphasis on the use of GIS, CAD, geophysical interpretation software and digital cartography Each student presents a written report on selected case study.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Teaching in the form of lectures, practicals and excursions.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Attending laborations compulsory, passed written report, participation in excursion.

Overlap

The course O7010K is equal to O7021K, KGO009

Literature. Valid from Autumn 2007 Sp 1

Programme documentation, compends

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Items/credits

Number	Type	Credits	Grade
0001	GIS-laboratory	3	G U 3 4 5
0002	CAD-laboratory	3	U G#
0003	Seminar assignment	1.5	U G#

Last revised

by Eva Gunneriusson 2012-11-09

Syllabus established

Course plan approved by the Department of Chemical Engineering and Geosciences 2007-02-28.