

GEO3131 Geographical Information Infrastructure - 2010-2011

Course code:

GEO3131

Course name:

Geographical Information Infrastructure

Course level:

Bachelor (syklus 1)

ECTS Credits:

10

Duration:

Vår

Language of instruction:

Norwegian

Prerequisite(s):

- GEO3111 - Geographical Information Technology
- GEO2xxx - Geographical Information Technology
- IMT2261 - Information Structures and Database Systems

On the basis of:

GEO2xxx - Geografisk datafangst

Expected learning outcomes:

After completing this course, students will understand the meaning of the term Geographical Information Infrastructures (GII), know how GII is organised in Norway and internationally, and also know what a "Geodata Policy and Plan" for an organisation should contain.

The students also will learn about and gain experience in the technology for distributing geographical information using the Internet.

Topic(s):

- Geographical Information Infrastructures in Norway (Norge digitalt, geonorge.no) and in the world (INSPIRE, GSDI...)
- Geodata Policy and Plan (for a single organisation)
- Basics of geomatic economics
- Technology for geodata publishing using the Internet, incl Geography Markup Language (GML), Web Map Server (WMS), Web Feature Server (WFS)
- Geospatial Clearinghouses and Metadata

Teaching Methods:

Lectures

Net Support Learning

Exercises

Form(s) of Assessment:

Portfolio Assessment

Form(s) of Assessment (additional text):

Portfolio Assessment is based on a portfolio consisting of 4 group based submissions and an individual oral examination. Grading is a total evaluation of portfolio and the oral examination.

Grading Scale:

Alphabetical Scale, A(best) – F (fail)

Tillatte hjelpemidler:**Coursework Requirements:**

None

Academic responsibility:

Faculty of Technology, Economy and Management

Course responsibility:

Høgskolelektor Anne Kristin Kvitle

Teaching Materials:

Selected parts of the following covers main topics:

- Lake R et al, 2004: GML Geography Mark-Up Language. Wiley, ISBN 0-470-87154-7
- Nebert D (ed), 2004: Spatial Data Infrastructure Cookbook v2.0, downloadable from <http://www.gsdi.org>

Complete list will be available in the Study Guide available at startup time.

Publish:

Yes