SYLLABUS

Geographic Information Technology 7.5 credits L0020B

Geografisk informationsteknik

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE **2021-02-17**



DocumentEducationAdmitted inDatePageSyllabusGeographic Information Technology 7.5 crAutumn 2023, Sp 12021-02-172 (3)

Geographic Information Technology 7.5 credits L0020B

Geografisk informationsteknik

First cycle, L0020B

Education level Grade scale
First cycle U G#

Subject group (SCB)

Geografisk informationsteknologi

Geographic Information Technology and Surveying

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language

Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

Course Aim

The aim of the course is to give the students ability, with geographical technology, to

- collect, store, analyse and visualize geographical data,
- describe concepts, terms and the most common operations in the subject field,
- be able to do geographic analysis in relevant GIS software program in practice.

Contents

- Basic concepts:

Definitions, history, application area, market.

Data capture:

Surveying, GPS, photogrammetry, remote sensing, manual digitizing, scanning, digital elevation models

- Geographic analysis:

Topology, vector analysis, network analysis, raster analysis, Digital Elevation Models.

- Initiation of GIS in organizations
- Field of application
- GIS software programs:

Desktop, Server and GIS on the Internet.

Utskriftsdatum: 2024-05-10 21:51:52

Realization

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

All the course material and software can be found on LTU's Citrix portal. There you can also find more detailed descriptions of the course contents and its realization. There are no pre-recorded lectures, nor are there any mandatory gatherings. The book and lecture notes constitutes the course literature and should be followed according to its instructions.



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. The course aim is examined through assignments that will be completed individually or in groups of two people and knowledge test which will be examined throughout the course. Marking of the assignments will be made according to U/G marking scale. All assignments should be completed to receive a final mark. Assignments are available on LTU's Citrix portal, knowledge test is conducted in Canvas.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Overlap

The course L0020B is equal to L0001B

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Assignment reports	U G#	7.5	Mandatory	A13	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2021-02-17

Syllabus established

by Eva Gunneriusson 2013-01-31



Utskriftsdatum: 2024-05-10 21:51:52