



LUND UNIVERSITY
Faculty of Science

SYLLABUS

Date
14 May 2018

Reg. Nr.
U 2018/262

Syllabus for the course Spatial Data Infrastructures (SDI), NGE003F

Swedish title: Infrastruktur för rumslig data

The course syllabus was confirmed by the Faculty board for graduate studies on 14 May 2018. Third cycle course, 5 credits.

This is a translation of the course syllabus approved in Swedish.

Learning outcomes

On Completion of the course, participants shall be able to:

Knowledge and Understanding:

- Describe several research issues in Spatial Data Infrastructures (SDIs).
- State how to describe Volunteered Geographic Information and its linked to SDIs
- Describe big Geodata and techniques for managing big Geodata in an SDI environment
- Describe coordinate system issues linked to SDIs.

Skills and Abilities

- Analyze and present how current research issues in SDIs are relevant to the students' own dissertation work
- Search for, read and summarize scientific literature.

Judgement and approach

- Recognize the importance of keeping abreast of current research issues not only within their own dissertation topic but also wider in Spatial Data Infrastructures.

Course content

This postgraduate course aims to be a link between the content of courses at the master level, and current research issues in spatial data infrastructures. The exact content of the course may vary, partly depending on the research development and partly on the direction of the department's research groups. Examples of issues that the course can include are:

- Development of techniques for the planning and development of SDIs
- Development of ideas and methods on using VGI to collect low-cost data required for studies on environment, climate, etc.
- Management and analysis of big (Geo)data in an SDI environment
- Coordinate systems issues linked to SDI

Teaching

The course will consist of around four segments. Each segment will have an introductory lecture, followed by exercises or independent tasks. Each segment ends with a seminar, with individual feedback on submitted exercises or reports.

Assessment

Assessment is based on participation in the seminars, submission of reports and practical exercises.

Grading scale

Possible grades are Pass and Fail. To pass the course, the student must actively participate in the seminars and pass all exercises and written reports.

Language

This course is given in English.

Entry requirements

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Additional information

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