



Department of Earth and Environmental Sciences

GISN33, GIS: GIS in Tourism and Recreation, 7.5 credits

GIS: GIS inom turism och rekreation, 7,5 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2021-05-05. The syllabus comes into effect 2021-05-05 and is valid from the spring semester 2022.

General information

The course is an elective course for second-cycle studies for a Degree of Master of Science (120 credits) in geographic information science.

Language of instruction: English

Main field of study

Specialisation

Geographical Information Science

A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

The course highlights, how geographic information science can be used for mapping planning and long-term handling of resources linked to primarily the tourism sector.

Knowledge and understanding

On completion of the course, the student shall be able to:

- account for the concept sustainable tourism
- account for possible conflicts of interests regarding development of tourism
- account for how a simple decision support system for planning of tourism can be built
- discuss and problematise theoretical concepts to analyse the ecological sensitivity of an area
- describe how field data collection can be carried out and be used together with GIS for mapping tourism influence in a region. account for other data that are useful with respect to mapping of turistpåverkan,

- account for how planning and administration of tourism can be carried out in sensitive nature areas.

Competence and skills

On completion of the course, the student shall be able to:

- communicate in writing and in a well balanced way using the appropriate scientific language and vocabulary within the subject
- visualise regional statistics and analyse seasonal effects
- carry out a spatial sensitivity analysis based on physical and biological properties regarding ecological sensitivity,
- use field measurements and data to visualise tourism influence using GIS,
- coordinate a simple tourist information system in a GIS practically and create a decision-making foundation for planning of sustainable development of tourism.

Judgement and approach

On completion of the course, the student shall be able to:

- assess and discuss research publications in the subject critically
- critically assess and discuss analysis results concerning categorisation of sensitivity of natural environments and understand the complexity in such analyses
- critically evaluate and assess quality and limitations of geographic data.

Course content

The course consists of the following practical and theoretical components:

- Sustainable tourism; concepts, definitions and relations
- Handling and visualisation of regional tourist statistics
- Ecological influence of tourism
- Mapping and analysis of ecological sensitivity in natural areas
- Mapping and analysis of hiking trails
- Mapping of particularly valuable natural environments
- Creation of a decision support system in GIS for planning and handling of tourism in sensitive natural areas
- Assessment of decision support systems and creation of a foundation for planning of sustainable tourism

Course design

The course is a distance course and is distributed on the Internet. It is flexibly designed giving the student options to carry out the course at full time or half time study tempo. The teaching consists of video lectures, research publications, other text material and practical GIS exercises.

Assessment

Examination takes place through practical and theoretical exercises that are presented as individually written assignments during the course and through a project.

Students who do not pass an assessment will be offered another opportunity for assessment soon thereafter.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Grades

Grading scale includes the grades: Fail, Pass

For the grade Pass, passed result in written assignments and practical and theoretical practical exercises and passed project work are required.

Entry requirements

Entry to the course requires general entry requirements, English 6/B and 90 credits scientific studies, including 30 credits in GIS. Equivalent knowledge acquired in a different way, also gives admission to the course.

Further information

The course cannot be included in qualification together with GISN23 GIS in tourism and recreation 7.5 credits.