



Faculty of Health, Science and Technology  
Geo-Science

# Syllabus

## GIS, Social Planning and Project Work

<b>Course Code:</b>	NGGA19
<b>Course Title:</b>	GIS, Social Planning and Project Work <i>GIS, samhällsplanering och projektarbete</i>
<b>Credits:</b>	12.5
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

### Major Field of Study:

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2019-08-28, and is valid from the Spring semester 2020 at Karlstad University.

### Prerequisites

60 ECTS credits completed in the Spatial and Social Planning Programme, including the courses Social Planning I, 7.5 ECTS credits, and Social Planning II, 7.5 ECTS credits, plus at least 4 ECTS credits for the course Introduction to GIS as a Tool in Social Planning, 7.5 ECTS credits, or equivalent

### Learning Outcomes

Upon completion of the course, students should be able to:

- use geographical information technology (GIT) in terms of methods and applications,
- describe how geographical information systems (GIS) can be applied in the social planning studies,
- plan, perform and report a GIS-project in social planning,
- use the infrastructure available in GIT,
- interpret and apply the relevant laws pertaining to the area and give examples of how GIS can be used to collect data in support of these laws.

**Content**

Instruction is in the form of lectures, seminars, computer exercises, and group work.

The more advanced functions of a GIS software are dealt with in practical exercises.

Students use GIS for practical exercises which provide examples of applications and analyses, primarily in the area of social planning. The use of GIS in different sectors in society is explored in group assignments.

Students carry out a group project involving, for example, children's routes to school, producing material for decisions on a new traffic plan, or investigating the accessibility of services in rural and urban areas respectively.

**Reading List**

See separate document.

**Examination**

Assessment is based on computer exercises, group assignments, individual assignments, an independent group project discussed in a seminar, and oral peer review of the work of another group. Individual contributions to the group project are clearly stated in writing. A written peer review report is presented individually. The number of examination opportunities is limited to five.

If students have a decision from Karlstad University entitling them to special pedagogical support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

**Grades**

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

**Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

**Course Certificate**

A course certificate will be provided upon request.

**Additional information**

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.

The course NGGA19 cannot be included in the same degree programme as NGGA23 or NGGAD1.