AG2130 Applied Urban and Regional Analysis 7.5 credits

Tillämpad urban och regional analys

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for AG2130 valid from Autumn 2013

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Built Environment

Specific prerequisites

At least 60 hp in the field of urban design, urban, transport or regional planning.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completing the course, students should be able to

- to apply the basic functions in different tools for spatial (quantitative) and statistic analysis;
- to design and implement an analysis of a practical planning problem using e.g. GIS or statistical tools
- to present the outcome of different types of analyses making effectively use of different visualisation techniques
- reflect critically on the strengths and limitations of different methods of spatial and statistic analysis in planning practice

Course contents

In order to identify ongoing developments and future needs, planners need tools to analyze existing data. These analyses provide an input for the identification of development strategies and a basis for decision making. While technology improves, new applications for GIS and other analytical tools evolve. As a planner you need to have knowledge on what opportunities these tools to collect (geographical) information can offer and how they can provide an input in planning practice and research.

Disposition

In lectures and computer labs different tools for spatial (quantitative) and statistic analysis are presented and discussed. A successful use of these tools depends however not only on the tool itself, but also on the accessibility of relevant and reliable data, an adequate analysis of the output and a critical discussion of the results. Therefore it is important to prepare each analysis carefully and consider issues as scale, problem definition, time limitations, selection of tool(s), the (technical) limitations of the tool, input/output data (availability and quality), and anticipated results.

Course literature

To be determined at the start of the course

Examination

- LAB1 - Computer Labs, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- LIT1 - Literature Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project Assignment, 3.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Project assignment (PRO 1; 3,5hp), literature assignment (LIT1; 1,5 hp) and a series of computer labs (LAB1, 2,5 hp)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.