



AG2420 Mass Valuation with GIS 7,5 hp

Mass Valuation with GIS

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

Fastställande

Kursplan för AG2420 gäller från och med HT08

Betygsskala

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

Utbildningsnivå

Avancerad nivå

Huvudområden

Samhällsbyggnad

Särskild behörighet

AI2101 - Real Estate Valuation

Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

The aim of this course is to explore the fundamental concepts and methods of geographic information system (GIS) and how GIS can be used as decision support system within taxation sector. At the end of the course, the students are expected to be able to:

- Have a good understanding of the basic GIS theory and methods, such as raster and vector data structure, information searching, and simple analysis.
- Have a good understanding of how the Swedish taxation and real estate databases are structured. This includes the logical structure of economic and legal aspects in the handling of real estate information.
- Be able to use the information from taxation and real estate databases to perform mass valuation, as well as to carry out market analysis, real estate valuation and credit assessment, with the support of GIS.

Kursinnehåll

The course consists of three main parts: basic knowledge of GIS, the Swedish taxation and real estate database structure, and various GIS analyses using information from these databases to perform mass valuation as well as market analysis, real estate valuation and credit assessment.

The first part of the course deals with raster and vector data structure, relational database structure for handling geographic information, map projections and reference systems, and simple GIS analysis. The second part of the course deals with different ways to model real estate information with focus on the Swedish taxation and real estate databases, as well as different standards for handling real estate information. In addition, the legal and economic aspects concerning building and maintaining a real estate database is also included. In the last part of the course, GIS is used for mass valuation, market analysis, real estate valuation and credit assessment.

Kursupplägg

Lectures 20 h

Laboration 36 h

Kurslitteratur

The course literature will be posted on the course's homepage at least four weeks before the course starts.

Examination

- LAB1 - Laboratory Work, 3,0 hp, betygsskala: P, F

- TEN1 - Examination, 4,5 hp, betygsskala: A, B, C, D, E, FX, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

Övriga krav för slutbetyg

Examination, TEN1, 4.5 credits, A-F
Lab exercises, LAB1, 3.0 credits, P/F

Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.