Analysis of Public Statistics

Single subject and programme course

15 credits

Statistisk analys av samhällsdata

732G25

Valid from:

Determined by
The Quality Board at the Faculty of Arts
and Sciences

Date determined
2008-03-11

Revision date
2011-09-28

Main field of study

Statistics

Course level

First cycle

Advancement level

G1X

Course offered for

- Bachelor´s Programme in Statistics and Data Analysis

Entry requirements

and that the students have completed courses in statistics equivalent to 15 HE credits at first-cycle level.

Intended learning outcomes

On completion of the course, the student should be able to
- account for how public data is acquired from national and international databases via the Internet and how the data is then analysed with specific focus on demographic data and time series data.
- assess the quality of data and interpret the results of the analyses.

Course content

The course covers:
- Information retrieval on the Internet
- Quality assessment of acquired data
Demography:
- Models and methods for demographic data
- Fertility, Mortality, Migration
- Life tables
- Index theory: Fixed base index and chain index.
Time series analysis:
- Time series regression
- Decomposition
- Exponential smoothing, Holt Winters methodology
- ARIMA, SARIMA
- Forecasting

Teaching and working methods

Apart from independent studies, the teaching consists of lectures, teaching sessions, supervision, two projects that are compulsory, compulsory review of another student's project, seminars and computer exercises.

Examination

The course is examined with a written examination and through projects that are presented both orally and in written form and with public discussion.

Grades

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Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus. The course is carried out in such a way that both men´s and women´s experience and knowledge is made visible and developed.

Department

Institutionen för datavetenskap