



Faculty of Economic Sciences, Communication and IT
Statistics

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Economic Sciences, Communication and IT on 10 September 2008, and is valid from the Autumn semester of 2007 at Karlstad University.

Course Code: STGA03

Research Methods, 7.5 ECTS Credits

(Undersökningsmetodik, 7.5 Swedish credit points)

Degree Level: Bachelor

Progression Level: A

Language of Instruction

The language of instruction is Swedish.

Prerequisites

SA minimum of 15 credits in Statistics.

Major Field of Study

Statistics

Learning Outcomes

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

- describe the principles and theories of how to plan statistical investigations (selection investigations and experimental investigations),
- describe some statistical methods for collecting and analysing quantitative data,
- give an account of various types of statistical methods of investigation and their use,
- make critical evaluations of reports and conclusions based on statistical data,
- use the basic functions of statistical software programmes and for data using
- search the relevant tools. Students should be able to reflect over the quality and relevance of different sources of information

Content and Form of Instruction

The course comprises three sections:

1. Introduction to the stages of a statistical investigation
 - Research objective
 - Data collection methods

- Constructing a questionnaire
- Data coding
- Data processing
- Sampling methods
- Report writing

2. Non-experimental surveys

Methods of planning and estimation in various sampling methods, including simple random sampling, stratified sampling, systematic sampling, and cluster sampling. The course will address other various methods of estimation, such as post-stratification and quota sampling.

3. Experimental investigations

Planning and analysing experimental investigations.

Reading List

See separate document.

Examination

Examination is in the form of take-home assignments, seminars and a final written examination.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) 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 assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University, ref. C2007/368, stipulate the obligations and rights of students and staff.

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