



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1IL037 Tillämpad metodik, 7,5 högskolepoäng
Applied Methodology, 7.5 credits

Main field of study

Information Systems

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

Prerequisites

General entry requirements.

Expected learning outcomes

The expected learning outcome is that the student shall possess knowledge about and be able to assess the overall decisions that have to be taken before and during a scientific investigation. Upon completion of the course, the student should be able to:

- describe thoroughly the meaning of scientific concepts
- undertake information and literature retrieval
- describe how scientific problems are identified and formulated
- assess alternative research designs
- describe and explain thoroughly the advantages and disadvantages of various scientific methods for quantitative as well as qualitative data collection
- use scientific methods for quantitative, as well as qualitative data analysis
- assess scientific essays

Content

The course focus is on the choices and decisions that have to be taken before and during a scientific investigation. Attention is given to: identification and choice of a scientific problem, formulation of purpose, development of frame of reference, choice of research design, choice and decision of method for data collection and method for data analysis. Various choices and decisions are dealt with, both regarding quantitative and qualitative investigations.

Type of Instruction

Lectures, seminars and supervision.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Assessment of the student's performance is made on the basis of a written exam (with the grades Fail (U), Pass (G) or Pass with Distinction (VG)) and assignments (with the grades Fail (U) or Pass (G)) that are presented and defended at seminars. Students who do not pass the regular examination are given the opportunity to do a resit examination shortly after the regular examination.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Other

Upon request, a Swedish University degree will be awarded upon successful completion of the full demand for that degree.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

Required Reading and Additional Study Material

Required reading

Jacobsen, D. I. (2000), *Vad, hur och varför? - om metodval i företagsekonomi och andra samhällsvetenskapliga ämnen*. Lund: Studentlitteratur. 503 p. ISBN: 978-91-44-04096-7.

Mattsson, P Örtenblad, A. (2008), *Smått och gott : om vetenskapliga rapporter och referensteknik*. Lund: Studentlitteratur. 96 p. ISBN: 978-91-44-05355-4.

Wärneryd, B. m. fl. (1990), *Att fråga: om frågekonstruktion vid intervjuundersökningar och postenkäter*. 5. ed. Stockholm: Statistiska Centralbyrån. 280 p. ISBN: 91-618-0382-0.

Supplementary reading

Aronsson, Å, *SPSS för Windows - En introduktion* Studentlitteratur, Latest edition. 151 p.

Backman, J, *Att skriva och läsa vetenskapliga rapporter*, Studentlitteratur, Latest edition. 73 p.

Booth, W. C., Colomb, G. G. & Williams, J. M, *The Craft of Research*, University of Chicago Press, Latest edition. 317 p.

Dahmström, K, *Från datainsamling till rapport - att göra en statistisk undersökning*, Studentlitteratur, Latest edition. 411 p.

Eriksson, L. T & Wiedersheim-Paul, F, *Att utreda, forska och rapportera*, Liber Ekonomi, Latest edition. 206 p.

Holme, I. M. & Solvang, B. K, *Forskningsmetodik: Om kvalitativa och kvantitativa metoder*, Studentlitteratur, Latest edition. 360 p.

Jarrick, A. & Josephson, O, *Från tanke till text* Studentlitteratur, Latest edition. 133 p.

Malhotra, N, *Marketing Research*, Prentice Hall, Latest edition. 835 p.

Merriam, S. B, *Fallstudien som forskningsmetod*, Studentlitteratur, Latest edition. 228 p.

Widerberg, K, *Att skriva vetenskapliga uppsatser*, Studentlitteratur, Latest edition. 91 p.