Linnæus University

Course syllabus

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

5IK014 Vetenskapshistoria och vetenskapsfilosofi, 7,5 högskolepoäng

History, philosophy and science of Information Systems, 7.5 credits

Main field of study
Informatics

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved by the Board of the School of Computer Science, Physics and Mathematics 2009-12-01

Revised 2010-11-26. Revision made for prerequisites and course evaluation.

The course syllabus is valid from autumn semester 2011

Prerequisites
75 credits in informatics, including Information Systems Methodology 7.5 credits (4IK024) and English B or the equivalent.

Expected learning outcomes

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

- give an account of history and philosophy of science in the area of Information Systems
- describe and explain different views of knowledge, which are used in doing research within the subject of Information Systems
- present the scientific traditions of knowledge or approaches used within the subject of Information Systems
- analyse different approaches ability to be applied on different problems within the subject of Information Systems

Content

The course deals with the following topics:
-history of Science within the subject of Information Systems
-different traditions and approaches for doing research in Information Systems, e.g.

- design theory as research approach
- critical thinking
- social theory as a basis for research in Information Systems

-view of knowledge: Technical respectively Social Science traditions and their use in the area of Information Systems

Type of Instruction

Teaching methods consist of lectures, seminars and exercises, which are, performed individually or as group work.

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.

Assessments of students´ performance is made through written exams and/or oral presentations and/or performing mandatory assignments. Type of assessment used in the course will be decided on at the beginning of the course.

Students do not pass the regular examination are given the opportunity to do a re-examination shortly after the regular examination.

Course Evaluation

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

Other

Upon request, a Swedish University degree will be issued upon successful completion of the full demands 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

Mingers, J. & Willcocks, L. (editors), *Social theory and philosophy for information systems*, Chichester, 2004. 250 (455) pages.

Howcroft, D .& Trauth. E.M. (edited by), *Handbook of critical information systems research: theory and application*, Northampton, Mass: E. Elgar Pub., 2005. 250 (426) pages.

Galliers, R.D., M. Lynne Markus & Newell, S. (edited), *Exploring information systems research approaches: readings and reflections*, New York: Routledge, 2007. 250 (453) pages.

DFM, *Compendium*, Linnæus University. 150 pages.