



Course syllabus

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

4IK024 Vetenskapsmetod och teori, 7,5 högskolepoäng
Information Systems Methodology, 7.5 credits

Main field of study

Information Systems

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Organisational Committee 2009-12-01

The course syllabus is valid from autumn semester 2010

Prerequisites

75 Higher Education Credits in computer science or information systems science, or the equivalent. A minimum of 7.5 Higher Education Credits at bachelor level.

Expected learning outcomes

The course aims at giving the student basic knowledge on theory of knowledge and methodology in the field of Information Systems.

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

- thoroughly explain the meaning of fundamental scientific concepts
- effectively search for information and literature
- identify and describe scientific problems
- assess the choice of alternative research approaches
- thoroughly describe and explain advantages and disadvantages of different scientific methods for gathering quantitative and qualitative data
- apply fundamental scientific methods to quantitative and qualitative data analysis
- understand and assess scientific papers

Content

The course comprises:

- scientific literature retrieval
- writing and structuring scientific papers according to the requirements of international scientific publishing

- epistemological and methodological approaches in the field of Information Systems
- seminars in the field of Information Systems
- presentation of a scientific issues in a relevant area

Type of Instruction

Lectures and seminars.

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.

Written and/or oral examinations and/or mandatory work. The types of assessment used in the course will be decided on at the beginning of the course.

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

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 course certificate will be awarded upon successful completion of the course.

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

Required Reading and Additional Study Material

Required reading

Myers, M.D. & Avison, D., *Qualitative Research in Information Systems*, Sage Publications Ltd., 1st Ed., 2002. 312 (312) pages.

Cresswell, J.W, *Research Design Qualitative, Quantitative, and Mixed Methods-Approaches*, Thousands Oaks, CA:Sage Publications, 3rd Ed., 2009. 260(260) pages.

MSI, *Distributed material*. 100 pages.