



Course syllabus

Faculty of Technology

Department of Informatics

5IK510 Teorier i informationssystem, 7,5 högskolepoäng
5IK510 Theories of Information Systems, 7.5 credits

Main field of study

Informatics

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

Second Level

Progression

A1F

Date of Ratification

Approved by Faculty of Technology 2021-06-10

The course syllabus is valid from spring semester 2022

Prerequisites

30 credits in Informatics advanced level, including Information Systems Methodology 7.5 credits (4IK524) and English B or the equivalent.

Objectives

After completing the course students should be able to:

- thoroughly explain and reflect on the meaning of basic theories, paradigms and concepts used in the field of Informatics / Information Systems
- to describe, analyze and evaluate scientific theories and their applicability in research related issues and/or subject area
- use and reflect on scientific theories and concepts in a practice context, e.g. analysis

Content

The purpose of the course is to acquire basic knowledge about and experience with philosophies of science and paradigms within informatics/information systems research area. With such introduction, the course also aims at providing students practical understanding about the relationship between theories, research paradigms, and different traditions/theories and approaches for doing research in informatics/information systems research area.

The course comprises:

- philosophies of science and paradigms within the area of informatics/information systems
- use of philosophies of science and/or their concepts in practice
- motivated justification of choices with respect to philosophies of science in an area of application
- presentation of scientific articles

Type of Instruction

Teaching consists of lectures, seminars and practice based group work. For group work, each student should inform about their individual effort.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Assessment of students' performance is made through:

- 1) oral and written presentations of mandatory assignments
- 2) participation in seminars
- 3) written essay including use of theories in analysis of a phenomena

The different assessments are weighted as follows:

- 1) 20 % (written and oral presentations of mandatory assignments)
- 2) 20 % (participation in seminars)
- 3) 60 % (written essay)

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: 5IK014 History, philosophy and science of Information Systems, 7.5 credits and 5IK514 History, philosophy and science of Information Systems, 7.5 credits

Other

Grade criteria for the A–F scale are communicated to the student through a special

document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Required reading

Informatics compendium and digital material from Linnæus University, about 300 pages, chosen in consultation with the module leader and the examiner.