



LL109V IT for Technology Teachers 7.5 credits

IT för tekniklärare

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for LL109V valid from Spring 2013

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

General entry requirements.

The course is meant for professional teachers in technology in primary and lower-secondary school, above all in upper compulsory school. The course assumes that the student has good knowledge of the use of computers and access to computer and Internet connection during the course.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

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

- Identify aims from the curriculum of the school and the course syllabus in technology that include IT and learning, and suggest methods that give preconditions for pupils to achieve them.
- Relate to how computers and Internet influence the development in society in general and at school in particular.
- Create digital objects of learning and use his/her own or others' digital objects of learning in his/her own teaching.
- Seek information and relate to copyright in the field of technology.
- Explain how computers and network are built-up on a general level.
- Describe how personal computers and embedded systems are programmed to be able to carry out a certain job.
- Give examples of several digital tools common at school and describe their advantages and disadvantages

Course contents

The course deals with informatics and its location in the field of technology in the primary and lower-secondary school, above all in upper compulsory school. In the course, we discuss learning in an environment of which computers are a natural part and how the teacher can relate to that development. How computers and network function are also included on a general level. The course also deals with production and use of digital objects of learning.

Course literature

Scientific articles, extracts from books, curriculum and course syllabi for the primary and lower-secondary school and several web resources. Literature list is available two weeks before the start of the course at the latest.

Examination

- SEM1 - Seminars, 1.5 credits, grading scale: P, F
- INL1 - Written Assignment, 4.5 credits, grading scale: P, F
- LAB1 - Laboratory Tasks, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

The course is examined through active participation in all course meetings. We apply continuous examination where the student will be assigned larger and smaller written assignments between the course meetings. In the course there is also a laboratory part where the student should create digital objects of learning in technology.

Other requirements for final grade

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Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.