# LT1021 Introduction-Technology Education 7.5 credits

## Introduktion-teknikdidaktik

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

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

## Establishment

Course syllabus for LT1021 valid from Spring 2016

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

Entry requirements

For admission to the course, knowledge is required equivalent to:

General entry requirements for upper-secondary teacher training programme in technology.

## 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:

- compare different perspectives on and definitions of technology and technology as phenomenon, school subject and university discipline

- describe and compare different didactic traditions and theories that concern pupils'learning and concept formation in technology

- account for the special character of technology as human activity, including the needs, driving forces and conditions that have underlain the development of technology, and show knowledge of how contemporary society influences nature, man and the environment

- identify and describe factors and considerations that influence design and function of technical products, components and systems

- discuss and reflect on gender aspects and ethical and global perspectives connected to technology

- make conscious didactic choices based on national and local policy documents for technology and didactic research

- discuss and reflect on his professional role and disciplinary knowledge, considering how one can make use of pupils' experiences in technology

- orally and in writing master different linguistic genres related to technology

## Course contents

The course should give the student insights in the didactics of technology and in technology as a discipline. Different perspectives within technology will be examined, such as ethics, gender, history of technology, writing and arguing and entrepreneurship and use of ICT.

The course treats the development of technology in a historical perspective.

The course treats definitions of technology, of technology instruction and technical knowledge.

The course treats writing and argument within technology.

The course treats also concept and knowledge formation and didactic research.

ICT runs as a theme through the course.

Lectures, seminars, literature studies, field studies at our partner schools, and study visits. The teaching is based on the student participating actively in the different components.

## Course literature

Anges senast tre veckor före kursstart.

Delar av kurslitteraturen är på engelska.

## Equipment

Computer with Internet connection.

## Examination

- LAB1 - Study visit, 1.0 credits, grading scale: P, F
- PRO1 - Project work, written assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Project work, oral assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Seminar, 1.0 credits, grading scale: P, F
- TEN1 - Written examination, 2.5 credits, grading scale: A, B, C, D, E, FX, 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.

## 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.