



# LT2031 Teaching and Learning in Technology and Engineering, Part 2 5.0 credits

Ämnesdidaktik - lärande och undervisning i teknik, del 2

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

## Establishment

The official course syllabus is valid from the autumn semester 2026 as decided by the Faculty Board: dnr HS-2026-1297. Decision date: 2026-06-15.

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Technology and Learning

## Specific prerequisites

Pass grade (minimum E or U) in the two courses listed on the Swedish course plan and Placement 1 (or equivalent knowledge).

## Intended learning outcomes

Having passed the course the student is expected to be able to:

• show advanced knowledge of formative and summative assessment in technical subjects.

- account for current research about teaching and learning technology in a determined field and discuss its relevance for the teaching in primary and/or upper-secondary school.

- discuss and evaluate exploratory working methods in the teaching of technical subjects.

- plan teaching for a longer period in accordance with current policy documents with reasonable progression and with regard to other school subjects and pupils' different interests.

• problematise and critically review the use of different teaching and learning resources (including but not restricted to digital resources) in teaching.

- contrast technical knowledge and skills against other skills and, based on this, discuss the place of the technical subjects in the education system

## Course contents

In the advanced course, knowledge from the introductory course is deepened. The special character of technical knowledge and the consequent complex situations for grading are highlighted. During the course the students may choose to study current research chosen in consultation with the teacher.

## Examination

• SEM1 - Seminars etcetera, 1.5 credits, grading scale: P, F

• INL1 - Written Assignments, 3.5 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.

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

Written assignments.

Active participation in seminars and other compulsory teaching.

## Transitional regulations

Finns inga

## 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.