LT2046 Development Project in Technology Education 7.5 credits

Utvecklingsarbete inom teknikens ämnesdidaktik

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

On 2023-10-04, the Head of the ITM School has decided to establish this official course syllabus to apply from spring semester 2024, registration number: M-2023-1885

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology and Learning

Additional regulations

The course requires access to computer, web camera, microphone and Internet connection.

The course can be given in collaboration with active teachers in municipal and independent schools.

Specific prerequisites

Passed grade (lowest Pass resp E) in the courses UM7101 Science Education, Curriculum Studies and Assessment (10 ECTS); LT1045 School Placement 1 (15 ECTS) and UCG42K Theories of Learning and Development (7.5 ECTS).

Language of instruction

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

Intended learning outcomes

1. Based on scientific knowledge, proven experience and current regulations identify possible fields of development in technology teaching

2. Plan a development project in the field of technology teaching, based on science and proven experience

3. Within given frameworks, even with limited information, examine, analyse and discuss complex issues, as well as deal with more advanced problems within their area of teaching

4. Reflect on, evaluate and critically examine their own experiences and scientific results, and those of others

5. Reflect on his/her newly acquired knowledge in relation to the teaching mission, as well as to previous education and professional or vocational experience

6. Document and present their work to a given audience, with high expectations on structure, formatting and language

7. Analyse their own need of additional knowledge and discuss future professional development.

Course contents

By carrying out a project pertaining to the development of technology education, the student is given the opportunity to apply their subject-specific didactic skills to develop the teaching within an area of the technology subject in the elementary or upper secondary school. The project may address for example (but not necessarily limited to) lesson planning, choice of course material, accessibility, professional development, and formative and summative assessment. The theme should be preferably connected to the student's previous research domain and/or the activities at the placement school. The project starts before, and is completed after, a placement period. This way, students have the opportunity to collect data or test ideas during their placement.

The course aims to enhance the student's possibility develop the teaching of technology, independently and together with others. The work is documented in a written report. In addition, the report can include e.g. lesson plans, artefacts, and teaching material. The work is carried out with support from a supervisor.

Examination

- INL1 - Project plan, 1.5 credits, grading scale: P, F
- INL2 - Development project, 6.0 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.

Other requirements for final grade

Active participation in compulsory seminars.

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.