



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

1TG124 Teknik för undervisning i år 4-6, 7,5 högskolepoäng
Technology for teachers in compulsory school, years 4-6, 7.5 credits

Main field of study

Technology

Subject Group

Other Subjects within Technology

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by the Board of the School of Computer Science, Physics and Mathematics
2012-08-17

The course syllabus is valid from spring semester 2013

Prerequisites

General entry requirements and Civics A, English B, Mathematics B, Science studies A or Civics 1b / 1a1 +1a2, Mathematics 2a / 2b / 2c, Science studies 1b / 1a1+1a2.

Objectives

After the course the student should be able to:

- describe the basic technical concepts and their relation
- plan and introduce students to practical problem solving, design and documentation
- explain how the development of a technical system can affect the community in relation to sustainable development
- describe common technical systems.

Content

The course covers the following topics:

- Everyday objects, their structure and function
- Basic technical concepts and forms of expression
- Technical system
- Design and practical problem solving with different techniques and materials

Type of Instruction

Teaching consists of lectures, seminars, group exercises, field trips and laboratory work. Participation in laboratory work, group exercises, field trips and seminars are mandatory, as is the preparations and the presentation in connection with them.

Computer, headset and internet is required if the student follow the course online.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Assessment of student performance is made through written test and/or oral examinations and/or presentation of mandatory assignments. The assessment method is decided at the start of the course.

Students who do not pass the regular examination will be offered retrials close to the regular examination.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required Reading

Bjurulf, Veronica. (2011). Teknikdidaktik. Norstedts.

Börjesson, Git. (2008). Teknik direkt. Stockholm: Bonnier utbildning.

Sundin, Bo. (2006). Den kupade handen: historien om människan och tekniken. Stockholm: Carlsson.

Compendium (provided by the department)

Reference Literature

Norkvist, Hans, Powell, David & Gustavsson, P. (1997). Försök med teknik. Stockholm: Almqvist & Wiksell.