



HU1901 Engineering Practice and Development 7.5 credits

Kompetens och utveckling

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

Establishment

Course syllabus for HU1901 valid from Autumn 2007

Grading scale

P, F

Education cycle

First cycle

Main field of study

The Built Environment, Technology

Specific prerequisites

HN1900, Engineering and Information Skills

At least 60 credits within the programme.

Language of instruction

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

Intended learning outcomes

The aim of the course is to, in a wide sense, inform and prepare students for different situation at work. The focus is on general issues.

After completing this course students are to:

- understand the importance of personal and professional development in different fields of technique
- have been stimulated to see future possibilities within business and technique
- have a good ability to understand the user's point of view
- have got further training in writing, presentation technique and reflection of future work
- be able to transform human needs of goods, services and systems to concepts of engineering
- be able to understand the own responsibility at work, and be able to put up aims and sub aims for work and personal development

Course contents

- Developing social and emotional competence
- Group dynamics and team building
- Process concepts and project management
- Conflict treating, communication, ethic and moral
- Social responsibility, orientation of the surrounding world, building net works and mentorship
- Communication
- The engineer's function in society, earlier, now and in the future

Disposition

The course is based on experience-based learning and, therefore has compulsory attendance. The theory is combined with exercises in small groups. The engineer event can consist of visits to workplaces, mentor contacts and visits from engineers on the respective Campus.

Course literature

Nilsson, Björn, Samspel i grupp, Studentlitteratur, ISBN 91-44-04354-6

Examination

- ÖVN1 - Exercises, 3.0 credits, grading scale: P, F

- ÖVN2 - Exercises, 4.5 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.

Other requirements for final grade

Compulsory participation in lectures and seminars. Compulsory participation in exercise sessions

(ÖVN1, 3 cr. credit rate failed, passed)

Passed seminar papers and reports

(ÖVN2, 4,5 cr. credit rate failed, passed)

In total credit rate failed, passed

For students on other programs: Engineering role, Approved the representation in presentation techniques. Ethical Moments.

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.