



AH2401 Risk in Technical Systems 7.5 credits

Risker i tekniska system

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 AH2401 valid from Autumn 2013

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Built Environment

Language of instruction

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

Intended learning outcomes

The course will give the students an understanding of fundamental principles of risk analysis and ability to judge various kinds of social risks.

Course contents

Risks in technical systems. Risks then and now. How risks can be prevented. Security combined with electricity. Risks connected with transformation of energy. Risks combined with the use of computers. Health and environmental risks. Risks related to work. Risks related to the transportation system. Analysis of risks. Valuation of risks.

Specific prerequisites

For single course students are required:

University studies of at least 15 credits in technology and science, knowledge of Swedish B/Swedish 3 and English A/English 6 or equivalent.

Course literature

- Grimvall, G., Jacobsson, P., Thedéen, T. (Red), Risker i tekniska system. Studentlitteratur 2003.
- Ravsand, M., Risikoanalyse, Tapir, 1991.

Equipment

This course requires access to a computer and conferencing software (for free), Internet access, Modem

Examination

- TEN1 - Examination, 3.0 credits, grading scale: P, F
- ÖVN1 - Exercise, 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.

Other requirements for final grade

Examination (TEN1, 2c) and exercises (ÖVN1, 3c).

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.