



AH2906 Railway Track Technology 7.5 credits

Banteknik

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 AH2906 valid from Autumn 2011

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology

Specific prerequisites

150 university credits (hp) in engineering or natural sciences, documented proficiency in Swedish corresponding to Swedish B, and documented proficiency in English corresponding to English B.

Language of instruction

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

Intended learning outcomes

Upon completion of this course, the student will be able to understand:

- the basics in design and construction of railway tracks.
- geometry and substructure of tracks, track material selection, vibrations and track damages.
- basic concepts on the operation and maintenance of railway tracks, railway bridges and tunnels.

Course contents

The course covers the basics for design, construction, operation and maintenance of railway track and track substructures.

Course literature

TBA

Examination

- TEN1 - Exam, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises and Project Work, 3.0 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.

PRO1 - Project, 3.0 credits, grading: P/F

TEN1 - Written exam 4.5 credits,
grading: A, B, C, D, E, FX, F.

Other requirements for final grade

A mandatory written examination equivalent to 4.5 cr with grading scale A-F and a mandatory project assignment equivalent to 3.0 cr with grading scale P/F.

The course grade will be determined by the grade of the written examination.

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.