



EN1001 Global Impact of Electrical Engineering 6.0 credits

Elektroteknikens betydelse för ett globalt samhälle

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 EN1001 valid from Spring 2019

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Language of instruction

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

Intended learning outcomes

On completion of the course, the student should be able to:

- use academic calendars, course syllabuses, intended learning outcomes and grading criteria to plan their studies on both short and long view
- review critically and reflect on both the set-up and implementation of the education as well as their own study achievements
- Review critically and reflect on the role of the electrical engineer in a sustainable society
- Illustrate different fields where research (and education) in electrical engineering plays a relevant role
- Carry out a limited study of the history of electrical engineering and present this in writing and orally
- Explain how different electrical engineering systems and standards function and how these systems have influenced society
- Carry out a limited analysis of an electrical engineering system and present this in writing and orally
- Analyse and form an opinion on the possibilities and limitations of electrical engineering and its role in society and the responsibility of people for its use, including social and economic aspects

Course contents

The contents consist of:

- How does syllabus, intended learning outcomes, grading criteria, and examination work at KTH?
- Study experience, own responsibility, personal development during a professional career, self-reflection- what do I want I with my education?
- The importance of electrical engineering for the societal development up to now
- The importance of electrical engineering for the development of a sustainable society
- Evaluation of the programme, quality development, student influence.

Disposition

Seminars and written assignments

Specific prerequisites

Compulsory for students admitted to CELTE via common entry or admission to later part of programme to school year two or three. Can not be read by other students.

Course literature

Material from lectures. The students also search for literature themselves.

Examination

- UPPA - Assignments, 3.0 credits, grading scale: P, F
- UPPC - Assignments, 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.

The final grade is equal to the grade on the examination part UPPC.

Other requirements for final grade

Each examination part should be approved.

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.