



# EG2320 Power Systems and Environment 3.0 credits

## Elsystem och miljö

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

### Establishment

Course syllabus for EG2320 valid from Spring 2015

### Grading scale

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

### Education cycle

Second cycle

### Main field of study

Electrical Engineering

### Specific prerequisites

180 HEC and English B/English 6 (or equivalent)

### Language of instruction

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

# Intended learning outcomes

The objective with this course is to study how the power system affects the environment and how electric power engineers can contribute to sustainable development.

To pass the course, the students should show that they are able to

- analyse and discuss how a part of the power system affects the environment, which alternatives there are, as well as the costs for reducing the environmental impact,
- critically review other environmental analyses,
- reflect upon the role of the power system in a sustainable society as well as how the student in his or her future professional career can accomplish concerning environment.

## Course contents

The main part of the course is a case study, where students analyse a part of the power system and its impact on the environment. The students work in groups in these case studies. In addition to that, students should individually make a critical review of the work of another group and write an individual essay on roles of the power system and the electric power engineer in a sustainable society. The students' work is supported by some lectures and supervision in group and individually.

## Disposition

Project work and essay.

## Course literature

Students should find their literature themselves with support of their supervisors.

## Examination

- PRO1 - Project Work 1, 3.0 credits, grading scale: A, B, C, D, E, FX, 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.

## 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.