# EN2912 Individual Project in Electric Power and Energy systems II 7.5 credits

**Individuellt projekt i elkraftteknik II**

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

## Establishment

Course syllabus for EN2912 valid from Autumn 2016

## Grading scale

P, F

## Education cycle

Second cycle

## Main field of study

Electrical Engineering

## Specific prerequisites

AK2030 Theory and Methodology of Science. Moreover, other mandatory or electional courses can be required depending on the topic of the project.

The examiner should have approved that the student has sufficient prerequisites to carry out an individual research project.

## Language of instruction

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

## Intended learning outcomes

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

• describe, explain, demonstrate and develop relevant models and computation methods for a scientific problem within a selected topic,

• choose an appropriate solution method for the selected topic,

• orally present and discuss theory and case studies within the selected topic,

• write a technical report or scientific paper to communicate publishable results,

• be knowledgeable of the publication process for scientific papers in electric power and energy systems.

## Course contents

As the aim of the course is to develop the students ability to carry out research, it is natural that most of the learning in the course will be depending on self-studies, such as reading textbooks, technical reports, master and doctoral theses and scientific papers, and of course the students' own research efforts. In addition to this, students will get supervision from an experience researcher in the field, who will teach the students concerning good research practice as well as provide guidance on how to solve different research problems.

## Disposition

Before course start the student should have agreed with the examiner on a suitable topic. The student will then work indipendently with this topic under supervision of an experienced researcher.

## Course literature

The student will search for course literature with support of the supervisor.

## Examination

• PRO1 - Project work, 7.5 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.

This course is examined based on your project work. In order to pass the course, you will need to summarise your project work as instructed by your supervisor. The reporting of the project should include an oral presentation at a seminar (the presentation should be 10–30 minutes long and followed by a discussion with the audience) and a technical report or scientific paper. It is not a requirement that the report or paper should be published, but the research and presentation should be of such quality that it could be published.

## Other requirements for final grade

Approved project work.

## 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.