FEG3311 Modern Electric Power Systems, Minor Graduate Course 2.0 credits

Moderna elkraftsystem, mindre doktorandkurs

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 FEG3311 valid from Autumn 2011

Grading scale

Education cycle

Third cycle

Specific prerequisites

The course is intended for Ph.D. students in electric power systems, but can also be interesting for students from other fields of electrical engineering.

Language of instruction

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

Intended learning outcomes

Upon completion of the course the student should be able to

- describe the development and latest trends in power system analysis and power system dynamic and control,
- analyze and reflect upon different models and methods for power system analysis and power system dynamic and control.

Course contents

Computational and simulation techniques relevant to power system analysis, power system dynamic and control.

Disposition

Individual project.

Course literature

Technical reports and scientific publications.

Examination

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 result of the project is reported in a technical report (about 5-10 pages).

Other requirements for final grade

Approved technical report.

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.