Electric power technology

Elkraftteknik
6 credits

Programme course

TSFS16

Valid from: 2026 Spring semester

Determined by	**Main field of study**	
Board of Studies for Mechanical Engineering and Design	Energy and Environmental Engineering, Electrical Engineering	
Date determined	**Course level**	**Progressive specialisation**
2025-08-28	First cycle	G1N
Revised by	**Disciplinary domain**	
	Technology	
Revision date	**Subject group**	
	Physics	
Offered first time	**Offered for the last time**	
2023		
Department	**Replaced by**	
Institutionen för systemteknik		

Course offered for

- Master of Science in Mechanical Engineering
- Master of Science in Energy - Environment - Management
- Master of Science in Industrial Engineering and Management

Prerequisites

Senior highschool physics. Basic mathematical abilities. Derivatives and integrals. Complex numbers.

Examination

LAB1	Laboratory Work	2 credits	U, G
TEN1	Written examination	4 credits	U, 3, 4, 5

Grades for examination modules are decided in accordance with the assessment criteria presented at the start of the course.

Grades

Four-grade scale, LiU, U, 3, 4, 5

Other information

About teaching and examination language

The teaching language is presented in the Overview tab for each course. The examination language relates to the teaching language as follows:

- If teaching language is “Swedish”, the course as a whole could be given in Swedish, or partly in English. Examination language is Swedish, but parts of the examination can be in English.
- If teaching language is “English”, the course as a whole is taught in English. Examination language is English.
- If teaching language is “Swedish/English”, the course as a whole will be taught in English if students without prior knowledge of the Swedish language participate. Examination language is Swedish or English depending on teaching language.

Other

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

The planning and implementation of a course should correspond to the course syllabus. The course evaluation should therefore be conducted with the course syllabus as a starting point.

The course is campus-based at the location specified for the course, unless otherwise stated under “Teaching and working methods”. Please note, in a campus-based course occasional remote sessions could be included.