



EH2220 The Sustainable Electric Power Engineer 3.0 credits

Den hållbara ingenjören i elkraftteknik

Course syllabus for EH2220 valid from Spring 19

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

Grading scale: A, B, C, D, E, FX, F

Education cycle: Second cycle

Main field of study: Electrical Engineering

Intended learning outcomes

After completing the course, the students should be able to:

- Understand and discuss key issues of the role of engineers in the society.
- Understand the role of electric power engineering in society, and its role in achieving economically, socially and ecologically sustainable development.
- Be aware of and show respect to scientific, social and ethical aspects of research and development.
- Be aware of our responsibility for how technology is used, including social and economic aspects as well as environmental and safety aspects.
- Be aware of the ethical and cultural issues and differences in an international environment.
- Discuss and lead discussion on high level considering the above topics, present arguments based on scientific results.

Course main content

The course is spread over two years, that is, eight periods. Each period covers a different topic. The main topics of the course are: the role of technology and the role of engineers in the society, social and ethical aspects, our responsibility for how technology is used, the international labor market, culture and communication

To enhance the connection to relevant industry, the course includes a study trip.

Disposition

Eight seminars with teacher led discussion, home assignments with self-reflection

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

Completed Bachelor's degree (180 higher education credits), or equivalent academic qualifications. Documented proficiency in English corresponding to English B.

Literature

Tillhandahålls vid kursstart.

Required equipment

None

Examination

- UPP1 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- UPP2 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F

Requirements for final grade

Participation in all seminars, submitted and approved home assignments. The grading is based on the student's active participation in the discussions and on the quality of the submitted reports.