ME2087 Energy Business 6.0 credits

Energiföretagande

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

Establishment

On 14/10/24, the Director of First and Second Cycle Education has decided to establish this official course syllabus to apply from spring term 2025 (registration number M-2024-1861).

Grading scale

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

Education cycle

Second cycle

Main field of study

Industrial Management

Specific prerequisites

Achieved the requirements for Degree of Bachelor of Science in engineering or science.

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

On completion of the course, the student by combining knowledge in the subareas energy engineering, business administration, economics, business models and decision models should be able to:

1. Carry out basic analyses of how a business is influenced by external factors in energy markets such as policies and other actors' actions.
2. Analyse and evaluate businesses and business opportunities in different parts of the value chain in energy systems.
3. Analyse how the climate issue and other sustainability issues can transform energy systems.
4. Analyse how the action of different actors in the energy field influence the future design of energy systems.

Course contents

The course deals with:

- Analyses of the technical structure and institutional preconditions of different energy systems
- Different forms of entrepreneurship and companies based on different core and support processes in the energy systems, regarding both extent (local, regional, national, international) and time (epochs)
- The businesses, which can be developed in different parts of the energy value chain with different energy technologies, energy types, energy services, customer categories, geographical markets, financial instruments, etc.
- Analyses of the function of the energy markets
- Analyses of strategies both at company policy level, with regard to the transformation of the energy systems and the energy markets
- The effect of the climate changes on the transformation of the energy systems
- Business plans for an existing or recently started energy business, where the technical as well as the environmental and economical preconditions are clear.

Examination

- SEM2 - Seminar, 2.0 credits, grading scale: P, F
- TEN1 - Examination, 4.0 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.