MJ2145 Energy Systems - Business - Leadership 12.0 credits

Energisystem - ekonomi - ledarskap

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 MJ2145 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

Industrial Management,Mechanical Engineering

Specific prerequisites

4D1111 Engineering Work, Technology, Liberal Arts, 4D1122 Industrial Economics and Management for I, part 1 and 2, 4D1160 National Economy with Advanced Microeconomics and 4D1114 Knowledge Acquisition I and 4D1117 Knowledge Acquisition II. Besides the above, a minimum of 8 credits in optional economic courses and completed specific technology courses will be required.

Language of instruction

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

Intended learning outcomes

The objective of the course is to integrate the students'previous knowledge within the fields of technology, economy and management by studying and solving complex problems requiring competence in more than one subject area.

Course contents

The course is composed of three parts: (1) Literature and seminars, (2) Analysis and research methodology and (3) Industrial project. The literature segment will consist of seminars with an in-depth study of energy systems, system analysis etc, as well as a written paper in a subject of the student's choice associated to the project being conducted. Emphasis in part (2) will be put on the scientific method of research, models and model formation, data processing and information evaluation. The industrial project (3) will be conducted in co-operation with the Department of Energy Technology, the Department of Industrial Economics and a company in which the project is placed.

Course literature

Notified upon course start

Examination

- PRO1 - Project, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Project, 8.0 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Seminar, 2.0 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.

Other requirements for final grade

Passing grades in all the course sections (SEM1; 1,5cr), (SEM2; 1,5cr), (PRO1; 9cr)

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.