



AL2161 Environmental Management II, Advanced Course 7.5 credits

Miljömanagement II, fördjupningskurs

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

Establishment

Course syllabus for AL2161 valid from Spring 2015

Grading scale

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

Education cycle

Second cycle

Main field of study

Environmental Engineering, Mechanical Engineering

Specific prerequisites

A basic course MJ2663 or MJ2662 or 3C1380 or corresponding knowledge in basic environmental management

Language of instruction

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

Intended learning outcomes

Project proposals from different companies and organization will be carried out. The course will provide training and skills in the use of different tools used in planning and assessment of environmental and sustainability work of a company or organization. In the framework of the project different issues of corporate environmental management such as planning and implementation of management systems, environmental impact assessments, life cycle analysis, eco-labeling, environmental product declarations and climate change performance may be studied. The evolution of Sustainability Management and the integration of environmental management with other management systems can also be investigated.

This means that after the course the student should be able to:

- Describe, explain and compare the management systems for environment, quality and health and safety.
- Identify, analyze and evaluate sustainability aspects and propose indicators for formulation of targets and action plans for the sustainable development of a company or organization.
- In a group project, give an insight in an aspect of the work with environmental and sustainability management of a company or organization.
- Work independently and analytical in a group (project) and referring to own conclusions, simultaneously respecting the project description and intentions of a client.
- Write project reports according to instructions in the course documentation, present and discuss the reports to the company or organization that has been studied in the project and at seminars for the course participants.

Course contents

Motivations and forces driving the implementation and development environmental and sustainability management systems in companies and organisations. Current management systems aiming at implementing and sustaining a systematic, efficient and sustainable operation of a company. Comparison of current management standards for environment, such as EMAS and ISO14001, quality, ISO 9001:2000, health and safety – OSHAS 18001 for developing integrated management systems for sustainability. The course also addresses the tools for sustainability monitoring and planning, such as Environmental and Quality Auditing and Corporate Sustainability Reporting. The course is mainly a project course implementing theory and methods of environmental and sustainability management on companies and organisations.

Course literature

Whitelaw, Ken: ISO 14001 Environmental Systems Handbook. Second edition, 2004. Elsevier Ltd.

Examination

- ÖVN1 - Exercise, 2.0 credits, grading scale: P, F
- PRO1 - Project, 5.5 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.

Other requirements for final grade

In order to receive a passing grade (E) for the course, the reports and presentations of exercise and project must be approved. The final grade is calculated as a weighted average of the grades of the two parts.

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.