AL2113 Sustainable Development in theory and practise 6.0 credits

Hållbar utveckling i teori och praktik

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

Establishment

Course syllabus for AL2113 valid from Spring 2019

Grading scale

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

Education cycle

Second cycle

Main field of study

Environmental Engineering

Specific prerequisites

MJ1103, AG1808 or similar knowledge in sustainable development

Language of instruction

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

Intended learning outcomes

The overall aim with the course is to give a deeper understanding of sustainable development and how this can be implemented in practise. Focus is on threats and possibilities with our life style and technical development on a sustainable development.

After the course the student should be able to:

- Reflect on the concept of Sustainable Development
- Describe the most important threats to sustainable development from a given thematic area
- Suggest and motivate strategies and technical solutions that could be used for a sustainable development
- Describe management control measures and tools used for a sustainable development
- Reflect upon the engineers' role for a sustainable development
- Search for information from the scientific literature and summarise it in a written report as well as presenting it orally

Course contents

The overall aim with the course is to give a deeper understanding of sustainable development and how this can be implemented in practise. Focus is on threats and possibilities with our life style and technical development on a sustainable development.

The theme of the course is changed from year to year and is used to exemplify implementation of measures for a sustainable development.

Disposition

The course is given in Swedish.

The course is built upon a sector that changes from year to year (for example textiles, food). The value-chain of the sector is studied and social as well as environmental issues are identified.

The lessons are student-driven meaning that the students choose a part of the value-chain and are responsible for the lesson connected to this part. Student activities are alternated with lectures from teachers connected to the sector.

Examination

- SEM1 - Seminars, 2.0 credits, grading scale: P, F

- INL1 - Assignment, 0.0 credits, grading scale: P, F
- PRO1 - Project, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 2.0 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.

- Seminars SEM1: 2hp
- Project PRO1;2hp
- Reflection document (INL1; 0p)
- Exam (TEN1; 2hp)

Graded scale A-F

Other requirements for final grade

Passed examinations

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.