



ML1502 Sustainability for Industry 7.5 credits

Hållbarhet i industrin

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 ML1502 valid from Spring 2017

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course is only for students admitted to the engineering programme in Industrial technology and sustainability

Language of instruction

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

Intended learning outcomes

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

- Define, account for and use central sustainability concepts and identify specific sustainability aspects for modern manufacturing industry from economic, ecological and social perspectives.
- Give examples of management systems, economic and legal control instruments, standards, laws and regulations with explanations of how these contribute to improvements in environmental safety, gender equality, working environment and corporate social responsibility.
- Analyse and compile decision-making bases to handle the balance between economic alternatives, commercial potential and different sustainability effects.
- Demonstrate the ability of critical thinking, be critical of sources that present various types of facts and positions within subject areas related to sustainability.
- Argue orally and debate using collected facts, from different positions on economic, ecological and social perspectives on sustainability.
- Present criticism to the written and oral presentations of colleagues

Course contents

- Ecologically sustainable development (industrial ecology, sustainable development and sustainable production)
- Socially sustainable development (sustainable working systems, gender equality and diversity)
- Economically sustainable development (competitive and sustainable businesses)
- Criticism of sources, presentation techniques, rhetoric and argumentation technique

Course literature

Kurslitteratur meddelas 6 veckor före kursstart.

Examination

- INL1 - Assignments, 1.0 credits, grading scale: P, F
- LAB1 - Laboratory Work, 1.5 credits, grading scale: P, F
- PRO1 - Project, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 1.5 credits, grading scale: P, F
- ÖVN2 - Exercises, 1.5 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.

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.