



FMF3605 EcoDesign - Product Design for Sustainability 7.5 credits

EcoDesign - Produktutveckling för hållbara produkter

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

Establishment

Course syllabus for FMF3605 valid from Autumn 2020, M-2020-0276

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Admitted to PdD studies

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 student should be able to:

- Apply different methods for EcoDesign in product development
- Suggest and analyze design solutions for improving the products environmental performance
- Evaluate, discuss and argue around sustainability in relation to product development

Course contents

Methods for EcoDesign:

Life cycle assessment (LCA), life cycle cost analysis (LCCA), social life cycle analysis (S-LCA);

Waste management

Design rules for material selection, dismantling, surface treatment;

EU directives and regulations

Examination

- INL1 - Assignment, 7.5 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.

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.