



MF2021 Environmentally Adapted Product Design 6.0 credits

Miljöanpassad konstruktion

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 MF2021 valid from Spring 2009

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Language of instruction

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

Intended learning outcomes

To provide basic knowledge of environmentally adapted product development, as well as design support methods for life cycle assessment and design for recycling.

Course contents

LCA and the EPS system. Driving forces for recycling. Legislation, customer requirements. Methods for disassembly and separation. Design rules for materials selection, joints, surface treatment and product configuration.

Specific prerequisites

Qualified for studies in grade 4,

MF101X/MF102X/MF104X/MF111X/MF112X/MF114/MF116/MF106X/MF107X/MF109X/MF1022/M

Course literature

Compendium (Department of Machine Design).

Examination

- PRO3 - Project, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO4 - Project, 3.0 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.

Other requirements for final grade

Two projects: Essaylike test with questions announced 1 week ahead of test (PRO3; 3 cr), Project in product development in groups with oral and written presentation (PRO4; 3 cr)

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.