



MF2210 Frugal Innovation and Design 3.0 credits

Frugal Innovation och Design

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

Establishment

The official course syllabus is valid from the autumn semester 2025, according to the decision by the Faculty Board: M-2024-0018. Date of decision: 2024-10-14.

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Achieved the requirements for a bachelor's degree in engineering, science.

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:

1. describe the characteristics of frugal innovation and design, and their role in a sustainable and fair transition.
2. analyse and identify opportunities and needs where frugal innovation and design can be useful.
3. apply methods and frameworks that support the development of frugal innovation and design.

Course contents

The course aims to:

- provide students with knowledge of what characterises frugal innovation and design and, through examples, understand how these can support a green and just transition
- give students the opportunity to explore different situations/opportunities/needs where there is potential for frugal innovation and design solutions
- give students access to tools, methods and the opportunity to analyse, identify and develop their own prototypes based on their own idea of frugal innovation and design solution

Examination

- LAB1 - Lab assignment 1, 0.5 credits, grading scale: P, F
- PRO1 - Project assignment 1, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- PRO2 - Projekt assignment 2, 0.5 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.

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.