MF2074 Tactility, Surfaces for Touch and Feel 6.0 credits

Taktilitet, ytor för känsla och upplevelse

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

Establishment

Course syllabus for MF2074 valid from Spring 2014

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Eligibility for studies in Master programme track Technical Design, IDE.

Language of instruction

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

Intended learning outcomes

After completed course, the student is expected to be able to

a) formulate tactility problems and propose solutions by means of model-based methods and computer-based tools.

b) based on simple sketches in an early stage of the design process apply knowledge and skills in the choice of material and be able to argue for this choice based on the haptic and tactile properties of the material.

c) apply 3D modelling methods such as one of several sketch tools in the design process.

d) demonstrate a comprehensive view in problem solving within tactility and haptics.

e) present final comparisons between chosen solutions and the exploratory work, through usage of appropriate presentation aids.

Course contents

The course includes distinguishing and identifying problem by means of model-based methods and computer-based tools, and examination and evaluation of the properties of materials from haptic and tactile evaluation methods. On the basis of these methods, the students should later design, suggest materials and design products.

Course literature

Literature is distributed during the course.

Examination

- INL1 - Hand in Task, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project Work, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboration, 1.5 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.

In the course, laboratory sessions and written assignments and a project that is presented in an oral presentation and in a written report are included. For the final grade, the grades from the project and the assignments are combined and weighted according to the number of credits, provided that the laboratory exercise is approved.

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.