



MF2041 Industrial Design Engineering Preparatory Course Visualization and Communication 6.0 credits

Industriell design adaptivkurs

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

Establishment

Course syllabus for MF2041 valid from Autumn 2011

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Admitted to the Master TIPDM, track Industrial Design Engineering, IPDA

Language of instruction

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

Intended learning outcomes

Provide comprehensive knowledge of: Visualization and presentation tools in 2D and 3D

Course contents

This course will provide an overview of visualization tools basic skills in drawing and visualization tools in 3D and 2D, and guidance on how to present results in text and images using the text editor Indesign. The course also provides instruction in sketching techniques.

Workshop with featured role in the Design and Product

Upon completion of the course, students are assessed on their proficiency in surface modeling and in their presentation and accounting techniques.

The course focuses around project work which will be assessed by oral presentation.

Disposition

The course is offered in parallel with the Bachelor course Design and Product Development, Industrial Design, MF116x with lectures, briefings and training in computer programs. Each student will produce a poster and a brochure, to be presented in a group session at the end of the course. Exercises in sketching techniques are given in parallel with the course in life drawing for MF116x

The course uses an industry-related task that is rehearsed in workshops, shared with students in MF116x.

Course literature

Surfacing in 3D, Rhino version 3.0 or later

Visualization Software, Adobe Photoshop, Adobe Illustrator and Adobe Indesign

Sketching

Equipment

To be announced at the beginning of the course

Examination

- INL1 - Hand in Task, 3.0 credits, grading scale: P, F
- PRO1 - Project Work, 3.0 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.

Presentations are an educational element with mandatory attendance.

Other requirements for final grade

Approved assignments and project work

Compulsory attendance of 75% of the lectures and all CAD exercises

Mandatory attendance at the presentations

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.