



MF2060 Industrial Design Engineering Advanced Course, Part 1 12.0 credits

Industriell design högre kurs, del 1

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

Establishment

Course syllabus for MF2060 valid from Spring 2017

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Admitted to TIPDM, track Industrial Design Engineering (IPDC)

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:

- design a complex product based on user studies, trademark and sustainable development.
- use methods for user-driven design as well as proceed from the users need in the design process.
- shape a platform for trademark with the purpose to support design of products and services.
- understand and have experience from how technology, economics and industrial design is combined in a successful product realization project and also understand the roles of the different participants.
- apply skills in presentation and communication in actual projects.
- use knowledge of current research within the design area.

Course contents

During the course different methods and tools are studied in order to understand the user and their needs as well as analysing the result. As an example user studies are planned and performed.

Another area of importance is trademark, where strategies are studied and how they influence design of products and services. Moreover actual research within the design area is discussed.

One part of the course is a cooperation with other disciplines of education in economy and design. The goal is to give the students experience in group dynamics and the different roles existing in product development.

Included in the course is a research preparatory part of 1,5 credits.

Course literature

"Research Methods for Product Design", Alex Milton & Paul Rogers

Research articles

"The Brand Gap", Marty Neumeier

Examination

- PRO4 - Project, 2.0 credits, grading scale: P, F

- PRO3 - Project, 3.0 credits, grading scale: P, F
- PRO6 - Project, 3.0 credits, grading scale: P, F
- PRO5 - Project, 4.0 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.

The examination is based on the students active participation in group work and seminars, the quality of hand in exercises (both individual and in group) and writing tasks as for example peer review.

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.