



# MF2060 Industrial Design Engineering Advanced Course, Part 1 12.0 credits

## Industriell design högre kurs, del 1

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Course syllabus for MF2060 valid from Spring 17

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

### **Grading scale:**

**Education cycle:** Second cycle

**Main field of study:** Mechanical Engineering

### **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 main content**

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.

### **Language of instruction**

Language of instruction is specified in the course offering information in the course and programme directory.

### **Eligibility**

Admitted to TIPDM, track Industrial Design Engineering (IPDC)

### **Literature**

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

Research articles

"The Brand Gap", Marty Neumeier

## **Examination**

- PRO3 - Project, 3.0 credits, grading scale: P, F
- PRO4 - Project, 2.0 credits, grading scale: P, F
- PRO5 - Project, 4.0 credits, grading scale: P, F
- PRO6 - Project, 3.0 credits, grading scale: P, F

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.