



## Course syllabus

Faculty of Technology  
Department of Mechanical Engineering

1MT301 Industriell design I, 7,5 högskolepoäng  
Industrial Design I, 7.5 credits

### **Main field of study**

Mechanical Engineering

### **Subject Group**

Mechanical Engineering

### **Level of classification**

First Level

### **Progression**

G1F

### **Date of Ratification**

Approved by Faculty of Technology 2015-05-13  
The course syllabus is valid from spring semester 2016

### **Prerequisites**

Engineering Tools 7,5 hp or equivalent.

## Objectives

After completing the course the students are expected to have acquired

- overview knowledge of the various design disciplines
- basic knowledge of design tools
- basic knowledge of the design process
- overview knowledge of presentation techniques
- basic knowledge of ergonomics
- overview knowledge of the historical role of design in society
- general knowledge of colour and form

## Content

The course comprises the following elements:

- design process applications
- sketching and presentation techniques
- design exercises and/or design projects
- orientation into the design field
- exercises in analysis methods (function analysis, value analysis, risk analysis)

## Type of Instruction

The teaching consists of lectures, exercises, project work, etc.  
Some parts require compulsory attendance. Information on

these will be given at the start of the course.

## Examination

The course is assessed with the grades A, B, C, D, E, Fx or F. The assessment of student performances usually takes place during special examination periods and can take the form of project work, laboratory work, submitted assignments and written exams. The examination will be both written and oral.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

## Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

## Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 1MT001

## Other

Compulsory attendance of at least 80 %.

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

## Required Reading and Additional Study Material

### Required reading

William Lidwell & Gerry Manasca, *Deconstructing Product Design*, Laurence King Publishing

Jacob Buur & Jesper Windum *MMS Design*, Dansk design Center

Kenneth Österlin, *Design I Fokus*, Liber

Tom Kelly, *The Art of Innovation*, Doubleday, Random House Inc.

Monö Rune, *Design for product understanding*, Liber

Jan Landqvist, *Vilda ideer och djuplodande analys*, Carlssons

Henry Dreyfuss, *The measure of men and Women*, John Wiley & Sons, Inc

Hans Johannesson, Jan-Gunnar Persson, Dennis Pettersson, *Produktutveckling*, Liber

And hand outs.