



# COURSE SYLLABUS

## CAD

### Computer Aided Design

7,5 ECTS credit points (7,5 högskolepoäng)

**Course code:** MT1438  
**Educational level:** Basic level  
**Course level:** G2F  
**Field of education:** Technology  
**Subject group:** Mechanical Engineering

**Subject area:** Mechanical Engineering  
**Version:** 4  
**Applies from:** 2013-07-01  
**Approved:** 2013-04-30  
**Replaces course syllabus approved:** 2010-02-01

#### 1 Course title and credit points

The course is titled Computer Aided Design/CAD and awards 7,5 ECTS credits. One credit point (högskolepoäng) corresponds to one credit point in the European Credit Transfer System (ECTS).

#### 2 Decision and approval

This course is established by Department of Mechanical Engineering 2013-04-30. The course syllabus was revised by School of Engineering and applies from 2013-07-01.  
Reg.no: BTH 4.1.1-0341-2013.  
Replaces MT1402.

#### 3 Objectives

The course shall, for the student at an advanced level, give knowledge in how to use a modern tool in construction work and in product development process. Especially aimed at creating surface and solid models and a combination of these.

#### 4 Content

Applications of:

- Introduction
- CAD system structure
- History
- Program modules, help functions and methods for creating surface and solid models.

#### 5 Aims and learning outcomes

On completion of the course the student will be able to:

- create advanced solid models with a modern CAD system
- create compounded constructions of several details whereof some standard components retrieved from library
- import and export components between CAD systems
- use the technology in own future engineering profession to create virtual product models

#### 6 Generic skills

The following generic skills are trained in the course:

- analytical thinking in choosing methods
- practical application

#### 7 Learning and teaching

In the course lectures are mixed with practical exercises and demonstrations. The students create in the course computer models with different methods that the responsible tutor shall approve. Teaching is held in English.  
The teaching language is English.

#### 8 Assessment and grading

##### *Examination of the course*

Code	Module	Credit	Grade
1310	Assignment 1	1 ECTS	G-U
1320	Assignment 2	1.5 ECTS	G-U
1330	Assignment 3	5 ECTS	A-F

The course will be graded A Excellent, B Very good, C Good, D Satisfactory, E Sufficient, FX Insufficient, supplementation required, F Fail. If grade Fx are given, the student may after consultation with the course coordinator / examiner get an opportunity to within 6 weeks complement to grade E for the specific course element.

#### 9 Course evaluation

The course coordinator is responsible for systematically gathering feedback from the students in course evaluations and making sure that the results of these feed back into the development of the course.

#### 10 Prerequisites

The course is aimed at students who have studied minimum 180 credit points within an engineering subject field (or equivalent).

**11 Field of education and subject area**

The course is part of the field of education and is included in the subject area Mechanical Engineering.

**12 Restrictions regarding degree**

The course cannot form part of a degree with another course, the content of which completely or partly corresponds with the contents of this course.

**13 Course literature and other teaching material**

- Training examples may be found on the course web site
- Training examples in the help system of the software used
- CAD software may be downloaded from the vendor to be used in the student's own computer.

