



MG1028 Introductory 3D CAD

1.5 credits

Grundläggande 3D-CAD

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

Establishment

Course syllabus for MG1028 valid from Autumn 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Only for students of CMAST2 and CDEPR2 who have been students of the Open programme during year 1

Language of instruction

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

Intended learning outcomes

Upon completion of the course requirements, the student should be able to:

- create CAD models in Solid Edge in a structured manner:
 - parameterised solid models of 3D parts
 - assembly models containing part models
 - mechanism models and animations
 - simple drawings of parts with dimensioned orthographic, detail and section views
 - assembly drawings with parts lists and exploded views

Course contents

1. System introduction and basic part modelling in a modern 3D CAD system
2. More part modelling and assembly modelling
3. Documentation: How to create part and assembly drawings

Disposition

Three short lectures introducing different parts a modern CAD system are followed immediately by a related laboratory exercise.

An individual homework assignment where the skills acquired during the laboratory exercises are used on a model of the student's choice.

Course literature

Introductory CAD, Lasse Wingård & Per Johansson (pdf document that can be downloaded from Bilda by students registered on this course). Current version of Solid Edge CAD software (can be downloaded from KTH Program Distribution)

Examination

- INL1 - Laboratory and Homework Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

LAB1 Completed laboratory and homework exercises,
1.5 cr

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.