



# MG2022 Advanced CAD Modeling and Rapid Prototyping, Project Course 6.0 credits

Avancerad CAD- och FFF-modellering, projektkurs

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

If the course is discontinued, students may request to be examined during the following two academic years

## Establishment

Course syllabus for MG2022 valid from Autumn 2007

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Mechanical Engineering

## Specific prerequisites

MF1012 Design and Product Realization A or  
MG1003 Product Realization 1 or  
MF1015 Product Realization

or equivalent

Swedish B and English B or equivalent

## Language of instruction

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

## Intended learning outcomes

To get training and achieve proficiency in use of advanced CAD, PDM and Rapid Prototyping technology, through digital and physical modelling of a complex mechanical product or system, in a large-scale project.

## Course contents

CAD modelling of parts and assemblies, modelling and animation of mechanisms, often complex in shape or structure, representing assembled products or systems with moving parts. Manufacturing of physical parts using Rapid Prototyping and other manufacturing methods. Construction of a table-top assembly model with moving parts. Practical training in document management and project administration in a large-scale project using PDM technology.

## Course literature

Varies with the project task, which is carried out in cooperation with a company or other organization outside the university.

## Examination

- PRO1 - Project, 6.0 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.

## Other requirements for final grade

Project task (PROJ; 6 credits)

## 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.