



## COURSE SYLLABUS

# CAD-Solid Modelling, Basic Level Modelling, 7.5 credits

*CAD - Grundläggande solidmodellering, 7,5 högskolepoäng*

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<b>Course Code:</b> TCSG15	<b>Education Cycle:</b> First-cycle level
<b>Confirmed by:</b> Dean Mar 1, 2024	<b>Disciplinary domain:</b> Technology
<b>Valid From:</b> Jan 1, 2025	<b>Subject group:</b> MT1
<b>Version:</b> 1	<b>Specialised in:</b> G1N
	<b>Main field of study:</b> Mechanical Engineering

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### Intended Learning Outcomes (ILO)

This course should provide the student with the following skills;

- Knowledge about different ways of geometrical representation
- The ability to independently use a solid modelling software
- The ability to create parts and assemblies
- The ability to use neutral file formats
- The ability to independently create drawings from solid models
- The ability to conduct projects/assignments and present CAD models

### Contents

To give the student a basic CAD knowledge that can be used within the field of product development. The course gives an introduction to technical terms and methodology related to solid

modelling. The main focus in the course is to offer practical training in solid modelling with SolidWorks or Pro/ENGINEER (or an equivalent software).

The course is given in English and contains the following::

- Geometrical representation
- Neutral CAD file formats
- Technical terms and methodology related to solid modelling of parts
- Assemblies of parts
- Drawings of parts/assemblies
- Photo rendering
- Mechanisms/CAE
- Project tasks/hand in assignments

### Type of instruction

Lectures, computer room laborations, hand in assignments/projects.

The teaching is conducted in English.

**Prerequisites**

General entry requirements

**Examination and grades**

The course is graded Fail (U) or Pass (G).

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Examination	3 credits	U/G
Assignment	4.5 credits	U/G

**Course literature**

The literature list for the course will be provided 8 weeks before the course starts.

SolidWorks Curriculum tutorials cd