COURSE SYLLABUS

CAD-Solid Modelling, Basic Level Modelling, 7.5 credits

CAD - Grundläggande solidmodellering, 7,5 högskolepoäng

Course Code:	TCSG19	**Education Cycle:**	First-cycle level
Confirmed by:	Dean Dec 4, 2018	**Disciplinary domain:**	Technology
Revised by:	Director of Education Oct 28, 2021	**Subject group:**	MT1
Valid From:	Jan 1, 2022	**Specialised in:**	G1N
Version:	2	**Main field of study:**	Mechanical Engineering

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. Lectures are conducted during evenings.

The teaching is conducted in English.

Prerequisites

General entry requirements

Examination and grades

The course is graded 5,4,3 or Fail.

Registration of examination:

Name of the Test	Value	Grading
Examination[I]	3 credits	5/4/3/U
Assignments	4.5 credits	U/G

[I] Determines the final grade of the course, which is issued only when all course units have been passed.

Course literature

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

SolidWorks Curriculum tutorials cd