



HÖGSKOLAN I GÄVLE

CAD- Parametric solid modeling 7.5 cr

CAD-teknik - Parametrisk solidmodellering 7,5 hp

Set by Board of Technology and Built Environment

Version	Set at	Valid from
	12/12/07	VT2009

Level	G1N
Education level	First cycle
Course identifier	MM510A
Credits	7.5 cr
Main field of study	Mechanical Engineering
Subject group	Mechanical Engineering
Disciplinary domain	Technology 100.0 %

Learning outcomes	On completion of the course, the student should be able to... <ol style="list-style-type: none">1. describe and account for basic CAD technical concepts2. apply basic methods in order to carry out parametric solid modelling in a 3D CAD system3. apply basic methods in order to carry out, present and visualise a 3D model as a complete drawing4. carry out, present and analyse an independently performed project from own idea to completed drawings, presented in a written report.
--------------------------	---

Course content	Basic CAD technology - Drawing and editing commands, monitor control, basic drawing techniques Basic parametric design - Geometric conditions, parametric dimensioning Modelling, compilation, drawing - Parts, Assemblies, Drawings Visualisation technique - Materials and lighting, presentation, scenes, animation Content Center, Design Accelerator - Retrieve and assemble standard details Orientation in 3D technology - CAD/CAM, FEA and PDM
-----------------------	---

Teaching	Teacher-supervised lectures, exercises and supervision of the own project
-----------------	---

Prerequisites	General entry requirements
----------------------	----------------------------

Examination 0040 - Written Assignments, 4 HE credits
0050 - Individual Project, 3.5 HE credits
The student is given the possibility of an individual written examination in order to improve the final grade.

Grade A, B, C, D, E, Fx, F

Limitations On receiving the grades Fx or F, re-examination primarily takes place at the regular examination of the next course date, since the course is given several times every year

Sustainable environment Content with sustainable development is not relevant to this course.

Module	0040 Assignments	4 cr	Grade: UV
	0050 Project Work	3.5 cr	Grade: UV