HÖGSKOLAN I GÄVLE

Computer Aided design, Basic Course 7.5 cr
CAD-teknik, grundkurs 2D 7,5 hp

Set by Board of Technology and Built Environment

Version

Set at	Valid from
5/30/07	**VT2008**

Level	G1N
Education level	First cycle
Course identifier	MM511A
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...
1. describe and account for CAD-technical concepts and basic drawing and drawing theory
2. apply basic methods in order to create drawings in a 2D CAD system, according to current standards.
3. handle the basic technical user interface and configure the drawing environment based on own needs and adapted to the sector.
4. carry out, present and analyse own individual completed project, from own idea to completed drawings.

Course content
Basic drawing - View and dimensioning
Introduction to AutoCAD - User interfaces and coordinate management
Settings and standards - Configure the drawing environment, create models and adapt the drawing environment to the sector
Create drawings - Drawing and editing commands, dimensioning and monitor control
Automatise the drawing - Create blocks, connected attributes
Presentation of the drawing - Plot, scale factors and standard formats

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

Prerequisites
General entry requirements

Examination	o 0040 Written Assignments, 4 HE credits
	o 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 |