



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1MT004 Maskinteknisk grundkurs, 7,5 högskolepoäng
Machine technology, basic course, 7.5 credits

Main field of study

Mechanical Engineering

Subject Group

Mechanical Engineering

Level of classification

First Level

Progression

G1N

Date of Ratification

Approved by Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

Prerequisites

General entry requirements and Mathematics D, Physics B or Mathematics 3c, Physics 2.

Expected learning outcomes

After completing the course the student is expected to

- be able to handle the most common machines in a metal workshop
- be able to manufacture a simple piece of wood furniture with the help of wood-processing machinery
- be acquainted with various machine elements
- be familiar with CNC
- be familiar with workshop measurement technology
- be acquainted with various welding and soldering methods
- be familiar with heat treatment of steel

Content

The course comprises the following elements:

- Knowledge of the structure and function of machine elements
- General workshop practice, e.g., turning, cutting, drilling, welding etc.
- CNC Programming
- Orientation on measurement technology
- Group work and project presentation

- Industry visits and industry education
- Manufacturing wood furniture in the wood workshop

Type of Instruction

The teaching consists of lectures, exercises and project work. Some elements require compulsory attendance. Information on the compulsory elements will be given at the beginning of the course.

Examination

The course is assessed with the grades U,3,4 or 5.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The assessment of student performances usually takes place during special examination periods and is normally written.

The assessment is also based on written and oral presentations of assignments, project work etc.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Credit Overlap

MTA917

Required Reading and Additional Study Material

Required reading

Karlebo handbok, 15 edition or later, Liber, 2000. 20071400 pages.