



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1MT017 Ingenjörswerktyg, 7,5 högskolepoäng
Engineering tools, 7.5 credits

Main field of study

Mechanical Engineering

Subject Group

Mechanical Engineering

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

Prerequisites

General entry requirements.

Expected learning outcomes

After completing the course the student is expected to:

- demonstrate the ability to draw and read complete technical drawings within the mechanical field, both detail and composite drawings,
- demonstrate the skills of applying computer programs for the production of technical drawings in 2D,
- show the skills of producing technical reports and make oral presentations,
- be familiar with the process of running a project and also with project planning and project management,
- show a general insight into ethical questions concerned with technology.

Content

The course comprises the following elements:

- Drawing techniques: standards, views and points of view, sections, measurement indication, measuring tolerance, form and situation tolerance, surface evenness,

threads and springs, welding indications, detail drawings and composite drawings,

- Computer aided 2D construction,

- Technical communication: report-writing and oral presentation,
- General orientation of projects and project management,
- General orientation of ethics for engineers.

Type of Instruction

The teaching consists of lectures, exercises, project work, etc. Some parts require compulsory attendance. Information on compulsory elements etc., will be given at the start 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 generally takes place during special examination periods and is usually written. The assessment may also be 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

MTA947

Required Reading and Additional Study Material

Required reading

Taavola, K, *Ritsteknik 2000, textbok*, Athena lär (1998). 158 pages.

Taavola, K, *Ritsteknik 2000, övningsbok*, Athena lär (1998). App. 50 pages.

Lindstedt, P & Burenus, J, *Professionellt projektarbete, del 1 i värdeserien*, (the book is available to download for free at www.nimba.se)