II1300 Engineering Skills 7.5 credits

Ingenjörsmetodik

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for II1300 valid from Autumn 2009

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed upper secondary education including documented proficiency in Swedish corresponding to Swedish B and English corresponding to English A. For students who received/will receive their final school grades after 31 December 2009, there is an additional entry requirement for mathematics as follows: documented proficiency in mathematics corresponding to Mathematics A. And the specific requirements of mathematics, physics and chemistry corresponding to Mathematics D, Physics B and Chemistry A.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The overall aim is to provide knowledge of engineering practices and to provide basic skills in using different engineering tools, with emphasis on project methodology, presentation skills and computer as a working tool.
This means that the student after the course is to:

- Describe and compare different types of development processes
- For simpler problems to apply key tools and techniques that support the selected development
- Reflect on completed projects.
- Write a technical report.
- Apply known methods of presentation techniques.
- Create a simple website to present the results and share information.

Course contents

Working in projects

- Project methodology
- Group Dynamics
- Project tools
- Project management

Presentations and Information

- Information
- Report writing
- Oral Presentation Skills
- Computer-based presentation tool
- Web-publishing

Using the computer as a tool

- Word processing and spreadsheet programs
- Presentation and ritprograml website to present the results and share information.

Disposition

A large extent of time is dedicated for practical project work in teams of 5-10 students.

Course literature

Preliminary:

Greg Horine: Absolute Beginner's Guide to Project Management (Upplaga: 2), Que, 2009, 9780789738219

Equipment

A laptop with wireless connectivity to computer networks.

Examination

- INL1 - Assignments, 4.5 credits, grading scale: P, F
- PRO1 - Project, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Project work

Assignments

Other requirements for final grade

- Active and contributing work in a team.
- Active participation in seminars and presentations.
- Submission of assignments given.
- In addition, see specification for specific course game

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.