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 2019

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

Having passed the course, the student should be able to:

- reflect on the engineer's professional role and approach in inter alia ethical, environment and sustainability issues
- reflect on and apply basic engineering methods to plan and carry out a smaller IT project in a group

in order to

- obtain knowledge of engineering operational methods and the engineer's professional role
- obtain basic skills in using different engineering tools with an emphasis on project methodology, presentation technique, and the computer as a working tool.

Course contents

The professional role as engineer

- Interview of an engineer

To work in project

- Project methodology
- group dynamics
- Project Management
- Project tools
- Project Work

Presentation and information techniques

- Information retrieval
- Report writing
- Oral presentation techniques
- Computer-based presentation tools
- Web publishing

To use the computer as a working tools

- Word processing and calculating programs
- Programs for presentation and drawing

Disposition

A large part of the time is intended for practical project work in groups of 5-8 students.

Course literature

Sven Eklund: Arbeta i projekt, - individen, gruppen, ledaren
Fjärde upplagan, förlag Studentlitteratur, ISBN 978-91-44-07275-3

Equipment

An own portable computer with possibilities to connect to the wireless computer network of KTH.

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.

In agreement with KTH´s coordinator for disabilities, it is the examiner who decides to adapt the examination for students in possession of a valid medical certificate. The examiner may permit other examination forms at the re-examination of few students

Other requirements for final grade

Active participation in seminars and presentations.

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.