



# II1300 Engineering Skills 7.5 credits

## Ingenjörsmetodik

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

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

## Establishment

The official course syllabus is valid from autumn semester 2024 according to the decision of Director of First and Second Cycle Education: J-2024-0562. Date of decision: March 27th 2024

## 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

After passing the course, the student should be able to

- to reflect on the professional role and approach of the engineer
- to create a simple computer program
- to apply engineering methods to plan and carry out a smaller project in information technology in groups

in order to

- obtain knowledge of engineering operational methods and the engineer's professional role
- develop basic skills in using engineering tools for project methodology, presentation technique and using the computer as a tool.

## Course contents

The professional role as engineer

- Interview of an engineer

Working in projects

- Project methodology and project tools
- group dynamics
- Project Work

Presentation techniques and information technology

- Information retrieval
- Report writing
- Oral presentation techniques and computer-based presentation aids
- The computer as a tool
- Programming concepts: sequence, selection, iteration, variable, assignment

## 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.

## 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.