

**SYLLABUS**

# **Computer Tools in Engineering 7.5 credits P0011B**

**Ingenjörrens datorverktyg**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

**DECISION DATE  
2021-06-14**

# Computer Tools in Engineering 7.5 credits P0011B

## Ingenjörrens datorverktyg

### First cycle, P0011B

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Byggproduktion	Building Technology

## Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language + Swedish upper secondary school courses Mathematics 2a or 2b or 2c.

## Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

## Course Aim

After completing the course, the student shall:

- be able to use at least one advanced CAD software to create construction models and documents of good quality
- be able to create reports using word processing software
- be able to create presentations using a slide show presentation program
- be able to conduct calculations using spread sheet software
- be introduced to problem solving using programming

## Contents

In this course the following software are used: CAD software (AutoCad Architecture and ArchiCAD or similar), spread sheet software (Excel or similar), word processing software (Word or similar) slide show presentation program (Powerpoint or similar) and programming language (Python or similar).

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The student will individually solve and hand in assignments. Teaching is conducted mainly through guided computer labs but also through a number of lectures.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

Individual assignments. The course is using a score system, 0-100. All assignments need to be handed in and for each assignment at least half of its score need to be reached to be able to get grade 3, 4 or 5 as final grade in the course. All assignments need to be handed in. A student who have collected 50 scores will get grade 3, 70 (4) and 90 (5).

## Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term “unauthorized aids” refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

## Overlap

The course P0011B is equal to S0002B, K0001B, ABS126, ABK030

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Assignments	G U 3 4 5	7.5	Mandatory	A17	

## Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

## Last revised

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2021-06-14

## Syllabus established

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2017-02-08