

**SYLLABUS**

# **CAD and VR 7.5 credits**

## **W0007B**

**CAD & VR**

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

DECISION DATE  
**2021-04-20**

# CAD and VR 7.5 credits W0007B

## CAD & VR

### First cycle, W0007B

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

### Main field of study

Architecture

## 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 and Basic knowledge in AutoCad and Revit or ArchiCad corresponding to K0001B Computer Tools in Engineering or F0007B Engineering Architecture or P0009B Civil and Building Engineering Design.

## Selection

The selection is based on 1-165 credits.

## Course Aim

After completing the course student shall be able to:

- Model buildings in 3D in Revit Architecture
- Understand alterations needed to be applied to a model before export/import
- Understand the meaning of global coordinates and its role in construction
- Export models to Google Earth
- Use parameterization to model repeatable objects

## Contents

The course focuses 3D modelling of building objects. Students will model buildings and their details in 3D in Revit Architecture. The course will not address drawing production.

## Realization

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

The course holds three tutorial assignments and two project assignments. The first project assignment is the modelling of a building in Luleå intended for publication on Google Earth. The second project assignment contains parametric modeling of a bridge..

## 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.

The course is examined through completing all the assignments. The grade is decided through grading the building model in Luleå and the parametric modeling project.

## 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 W0007B is equal to W0009B

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0005	Assignment reports	U G#	2.5	Mandatory	A13	
0006	Project tasks	G U 3 4 5	5	Mandatory	A13	

## 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 2021-04-20

## Syllabus established

by Institutionen för samhällsbyggnad 2010-03-01