

**SYLLABUS**

# **Mechanical Computer Aided Engineering 7.5 credits M7011T**

**Avancerad datorstödd konstruktion**

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

**DECISION DATE  
2023-02-15**

# Mechanical Computer Aided Engineering 7.5 credits M7011T

## Avancerad datorstödd konstruktion

### Second cycle, M7011T

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Maskinkonstruktion	Mechanical Engineering

## Entry requirements

M0010T Computer Aided Design or equivalent.

## Selection

The selection is based on 30-285 credits

## Course Aim

After the course the student will be able to: - model advanced parametric solid and surface models - understand, explain and solve common problems related to exchange of geometry data between different CAD-systems - use product data management system for team based product development

## Contents

Geometric formulation Advanced solid och surface modeling Integration of solid och surface modeling Exchange of geometry data between different CAD-systems KBE Preparation of geometry models for use in FEM/CFD PDM/PLM

## 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 is presented in the form of compulsory lectures, computer exercises and assignments.

## 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. Approved assignments, written exam and approved design exercise with written report. Grades are based on the report and the exam.

## 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.

## Transition terms

2113

## Course offered by

Department of Engineering Sciences and Mathematics

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Compulsory assignment	U G#	3	Mandatory	A07	
0002	Test 1	G U 3 4 5	1.5	Mandatory	A07	
0003	Design exercise with report	G U 3 4 5	3	Mandatory	A07	

## 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 Mats Näsström, Head of Undergraduate Education 2023-02-15

## Syllabus established

by Department of Applied Physics and Mechanical Engineering 2007-02-28