Advanced CAD

Programme course

6 credits

Avancerad CAD

TMKT74

Valid from: 2017 Spring semester

Determined by
Board of Studies for Mechanical Engineering and Design

Date determined
2017-01-25

Main field of study
Product Development, Mechanical Engineering

Course level
Second cycle

Advancement level
A1X

Course offered for
- Design and Product Development
- Mechanical Engineering, M Sc in Engineering

Entry requirements
Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Prerequisites
Basic CAD course.

Intended learning outcomes
The course will provide in-depth knowledge of the CAD tool's role in the product development process and how it is used effectively. After the course the student will:

- Demonstrate ability to plan for the creation of a complex CAD model of a major product consisting of several subsystems.
- Be able to make strategic decisions regarding the model's overall structure.
- Be able to make effective use of a widely used tool for product data management.

Course content
Planning of CAD projects. Model and product structures. The choice of nomenclature. Integration of CAD system / PDM systems. Product data management with PDM systems.

Teaching and working methods
Teaching consists of lectures and supervised lab sessions in computer classrooms. The examination consists of hand-in assignments.

Examination

PRA1	Project assignment	6 credits	U, G

Grades are given as ’Fail’ or ’Pass’.

Grades

Two-grade scale, U, G

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Peter Hallberg

Examiner

Peter Hallberg

Course website and other links

http://www.iei.liu.se/machine/courses/tmkt74

Education components

Preliminary scheduled hours: 48 h
Recommended self-study hours: 112 h

Course literature

Se kurshemsida.

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.