

Product Modelling

Programme course

6 credits

Produktmodellering

TMKT57

Valid from: 2017 Spring semester

Determined by

Board of Studies for Mechanical
Engineering and Design

Date determined

2017-01-25

Main field of study

Aeronautical Engineering, Product Development, Mechanical Engineering

Course level

Second cycle

Advancement level

A1X

Course offered for

- Design and Product Development
- Industrial Engineering and Management - International, M Sc in Engineering
- Industrial Engineering and Management, M Sc in Engineering
- Mechanical Engineering, M Sc in Engineering
- Mechanical Engineering, Master's programme

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

Courses in CAD and basic programming

Intended learning outcomes

After completing this course, the participants will have a good understanding of how automation of repetitive CAD work will provide engineers the means and opportunity to be more intuitive and creative. Furthermore the students shall:

- Be capable of creating CAD models of complex products
- Understand how to implement logic in CAD models in order to make them intelligent and generative
- Understand the principle of building flexible and reusable CAD models
- Be capable of creating flexible and reusable CAD models in CATIA V5
- Able to use programming in Visual Basic, CATScript and Engineering Knowledge Language (EKL) to create generative CAD models
- Able to use Application Programming Interface (API) in order to connect various software

Education components

Preliminary scheduled hours: 86 h

Recommended self-study hours: 74 h

Course literature

Studenterna uppmuntras också att aktivt söka ytterligare material på egenhand.

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://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.