MG2034 Information Modelling and IT-strategies 6.0 credits

Informationsmodellering och IT-strategier

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for MG2034 valid from Autumn 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

MG2028 Not Just CAD – IT Tools for Mechanical Engineers

We also recommend:DD1322 Applied Programming and Computer Science, Part 1

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completing the course requirements each student should be able to:·

 • use a variety of established tools and methods for information and activity modeling

 • specify information and activity models for data exchange between different IT tools

 • explain common standards for information modeling in your own words

 • from a given set of preconditions, evaluate the usefulness and benefits of different IT tools

Course contents

What are information strategies and platforms? Activity and data modeling – principles, methods and tools. Standards for information modeling and data exchange, e.g. Express, STEP, IDEF0 and ER models. Product data – definitions and problem areas.

Disposition

Lectures, exercises, laboratory work

Course literature

Course binder, which will be filled with lecture notes, articles, exercises etc., throughout the course.

Examination

 • PRO1 - Project, 4.5 credits, grading scale: P, F

 • ANN1 - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Other requirements for final grade

Completed projects and homework assignments

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.