MG2035 Product Data Management/Product Lifecycle Management 6.0 credits

PDM/PLM - Product Data Management/Product Lifecycle Management

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

Establishment

Course syllabus for MG2035 valid from Autumn 2007

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

MG2028 Not Just CAD – IT Tools in Industrial Product Realization
MG2034 Information Modeling and IT Strategies

Language of instruction

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

Intended learning outcomes

After this course you should be able to

- explain the meaning of and the difference between the terms PDM and PLM
- describe how a relational database is built and how it is used
- from an information model, create a database structure and populate it with relevant data
- write simple SQL expressions for creating/retrieving relevant data in a relational database
- explain the basic components and functionality of a PDM system
- from a given database structure, use and make small adjustments to a PDM system
- from a given activity model, use a PDM system to support and control a product realization process
- for a given project, choose, configure, and adjust a PDM system to effectively support, follow up and control the project

Course contents

Relational databases, database structures, PDM/PLM systems – components and functions,choosing, configuring and adapting PDM systems, use of PDM/PLM technology

Disposition

Lectures, exercises, laboratory work, field trips to PDM vendor and user companies

Course literature

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

Examination

- INL1 - Hand in Task, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- PRO1 - Project, 4.5 credits, grading scale: P, 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 assignment in ER modeling.Completed homework assignment in relational databases/SQLActive participation at hands-on exercises.Active contribution to the fulfillment of a project assignment.

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.