MF207X Degree Project in Integrated Product Development, Second Cycle 30.0 credits

Examensarbete inom integrerad produktutveckling, avancerad nivå

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

Establishment

Course syllabus for MF207X valid from Autumn 2011

Grading scale

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

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

The thesis should be part of a deepening in the chosen main subject (Mechanical Engineering) at the advanced level to meet the requirements for a degree. In the normal case required the compulsory courses in the master program Engineering Design / Integrated Product Develop, as entry requirements. Depending on the focus and depth of the degree work exemptions can be made if the current knowledge base, is still in the main field. If the student wants their final thesis in an area outside the field of technology / training program this must be approved by the direcctor of undergraduate studies (GA)

Language of instruction

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

Intended learning outcomes

After the course the student will be able to:

- apply relevant knowledge and skills acquired in the technology to a given problem

- within a given framework, even with limited information, independently analyze and discuss complex issues, and dealing with major problems at the advanced level in the technology

- reflect on and critically review their own and others' scientific achievements

- be able to document and present their work, for a given target, with the highest standards of structural, formal and language processing

- be able to identify the need for further knowledge and continuously upgrade their skills

These KTH common goal should be the basis of course objectives for all theses. Additional or specific price target for the thesis may be developed by schools, for training or for individual graduate work topics

Specification:

- ability to critically, autonomously, and creatively identify, formulate, and manage complex research questions withing the area of Integrated Product Development

- ability to plan and with appropriate mehtods conduct and evaluate the thesis work

- ability to acquire relevant scientific litterature

- ablility to place and evaluate the thesis in a broader scientific perspective

Course contents

The Masters programme is concluded by a master thesis in which the student is expected to demonstrate his/her ability to independently conduct research using a broad spectrum of skills. The topic of the master thesis may vary; however, it must relate to technology or development of technology and have a clear contribution to product development or innovation. Provided that the master thesis is in line with the requirements above and contingent upon the availability of authorised supervision during the work with master thesis, the student can choose to conduct the master thesis either in academia or in industry.

Examination

• XUPP - Examination Question, 30.0 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.

KTH Regulations

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.