MG102X Degree Project in Materials Design and Engineering, First Cycle 15.0 credits

Examensarbete i materialdesign, grundnivå

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

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

Establishment

Course syllabus for MG102X valid from Spring 2012

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Admitted to third year of studies in the Materials Design and Engineering (BD) programme

and

ME1001 Industrial Management. basic course

or corresponding

Language of instruction

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

Intended learning outcomes

After completing the degree project you will be able to

- formulate problems and apply methodologies in the field of Production Engineering, and Industrial Economics and Organization
- apply knowledge and skills gained during previous education on problems within the given area of specialization
- plan your own work to achieve desired goal
- analyze the need for scientific information and use information search tools to collect relevant information
- present their work as a technical report, compliant with the requirements on contents, structure and language
- specify references to sources, figures, tables and formulas in a standardized way
- write a summary of the report in English, with correct use of relevant terminology
- give an oral presentation paying attention to requirements on time frame, language, presentation, illustrations and contents
- review and present point of views and answer corresponding viewpoints on a technical work

Course contents

The degree project consists of an independent work within a problem area as determined by the examiner. It should normally be part of a focus on basic level. The work shall be 10 weeks of full time study. The work is reported in a written report and presented orally at a public seminar

Disposition

Initially, the course consists of a series of seminars in the area.

The work is carried out in groups of two students, supported by a supervisor

The work is presented on two occasions. at half-time with an opponent procedure, and at the final examination

Course literature

Students are required to search for and collect relevant literature for the given problem area

Other course literature may be suggested by the responsible teachers

Examination

- XUPP - Examination Question, 15.0 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.

The work is reported in writing and orally in English or Swedish.

Participation in opposition to another degree required.

The work will be assessed according to the following criteria: Work process, Engineering and scientific content and Presentation.

The overall grade is determined by the supervisor, following a plagiarism review of the report. A passing grade can only be awarded if the work meet the requirements of all three criteria specified above.

Other requirements for final grade

Project work (PRO1, 15 cr)

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.