



MG2027 Production Engineering - Project Course 6.0 credits

Industriell produktion - projektkurs

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

Establishment

Course syllabus for MG2027 valid from Autumn 2011

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

Compulsory for TPRMM2, CMAST5 PRM, CDEPR5 PRM

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 the student shall be able to:

- analyse and approach a technical problem description
- define and identify questions that are central for the technical problem, furthermore formulate a problem description according to the given frames.
- independently plan and run a project
- handle and collect information and facts, through different channels, which are relevant for the project.
- critically look upon and evaluate different technical solutions
- work in a project group, this encompasses to have knowledge about how work is best structured/divided within a groups according to the group members competence. This also means an ability to solve problems that might arise in the group.
- write and formulate a well structured technical report that in a clear way defines the problem, describes the methodology for approaching and solving the problem and also clearly outlines the result.
- structure and perform an oral presentation where the results from the projects is transferred to the audience.

Course contents

Within the frames of the course, together with the other students attending the course, you perform project work directly linked to industry. The focus/character of the problem description can be different depending on the main activities of the company, its size and current demand. The purpose of the project work is that you as student will be given an opportunity to use the knowledge gained in previous courses. You will also have a chance to test how a group of people together solve a real industrial problem. The group performs its work as a team. Support and guidance is continuously available from teachers and staff at KTH. The advance in the project is reported to advisors at KTH and industrial representatives within stipulated time intervals. The work is documented in a technical report and the project course is ended with an oral presentation where the approach, the methodology for solving the problem is clearly defined and a suggestion for solution is made.

Disposition

The aim of this course is to give the students an opportunity to apply the theoretical knowledge they have gained during previous courses on a project with industrial connection and relevance.

The goal is primarily to give the students experience of how you work in a project and how a problem is approached and addressed in a constructive, logic and efficient way.

Course literature

According to agreement: Reference literature depends on project formulation.

Examination

- INL1 - Assignment, 6.0 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.

Other requirements for final grade

Project work (PRO1; 6 ECTS)

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.