



MG110X Degree Project in Production Engineering, First Cycle

15.0 credits

Examensarbete inom industriell produktion, 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

On 05/15/2020, the Dean of School of ITM has decided to establish this official course syllabus to apply from spring term 2021 (registration number M-2020-1003).

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed courses of at least 120 credits in the 5-year engineering programme.

Language of instruction

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

Intended learning outcomes

After passing the degree project course, the student should be able to:

- independently identify, formulate, assess and handle problems of the Production Engineering subject area
- show a basic ability to apply knowledge, methodology and skills that have been acquired during the studies, on problems within the subject area
- account for the scientific basis and applicable methods within production engineering and display deepened knowledge within some part of this subject area
- analyse the need of scientific information, carry out information retrieval, evaluate the received information and identify his need for additional knowledge
- critically discuss phenomena, issues and situations within the subject area, considering relevant scientific, social, ethical and sustainability aspects
- plan and carry out assignments within given time frames, with relevant methods
- orally and in writing account for and discuss information, problems and solutions, in dialogue with different groups:
 - present the work in a scientific report that satisfies the given requirements of contents, structure and language
 - in the report, refer to sources, figures, tables and formulae, in an established way
 - write a summary of the report in English with correct use of the terminology of the subject
 - carry out oral presentations with requirements on keeping to time limits, clear contents, language, delivery and illustrations
 - review and give views on another degree project and be able to respond to equivalent views on own work
- show the skills that are required for working independently within some part of the Technology main field of study

Course contents

A common theme within which the students independently should formulate their own problem

Inspirational lectures on the given theme

Supporting lectures on scientific work method: information retrieval, report writing, etc.

Oral presentations at seminars

During the whole course: independent work with problem formulation, information retrieval, project planning and project follow-up, oral presentations and report writing

Examination

- XUPP - Examination Question, 15.0 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.

Transitional regulations

From the spring semester 2021, changed requirements apply to Specific prerequisites. Students who have started their studies before 07/01/2018 should during a transitional period until the expiration of the autumn semester 2022 be considered eligible if either the requirements for Specific prerequisites that applied before the spring semester 2021 or the requirements in the currently valid official course syllabus is fulfilled.

For course offerings starting from the spring semester 2023, only the specific prerequisites of the current official course syllabus will apply.

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.