



ML150X Degree Project in Industrial Technology and Sustainability, First Cycle 15.0 credits

Examensarbete inom industriell teknik och hållbarhet, grundnivå

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

Establishment

Course syllabus for ML150X valid from Spring 2021

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Specific entry requirements: 120 credits from mandatory courses and within this credits this courses need to be passed: ML1503, ML1504, ML1505 and ML1508 or the equivalent

Language of instruction

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

Intended learning outcomes

After passing the course, the students should be able to:

- independently identify, formulate, assess and handle problems in Industrial technology and sustainability
- show a basic ability to apply knowledge, methodology and skills that have been acquired during the education, on problems within the subject area
- account for the disciplinary foundation and applicable methods in mechanical engineering as well as show advanced knowledge in some part of this subject area and industrial technology and sustainability
- analyse the need of scientific information, carry out information retrieval, evaluate the received information and identify his need for additional knowledge
- discuss phenomena, issues and situations in the subject area critically "Industrial technology and sustainability", 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 such skills that is required to work independently in some part of the main field of study mechanical engineering and industrial technology and sustainability

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 - Degree Project, 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.

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

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.