MJ2624 Project in Environmental Technology 6.0 credits

Projektarbete i miljöskyddsteknik

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

Establishment

Course syllabus for MJ2624 valid from Spring 2013

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

Previous knowledge is assumed equivalent to MJ2627 or MJ2629 or MJ2640 or KH1341.

Language of instruction

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

Intended learning outcomes

The overall aim of the course is to provide deeper theoretical and applied knowledge and understanding of strategies and technologies used for a cleaner industrial production. The course will also provide knowledge about the planning and evaluating of cleaner production projects.

After a passed course the student should be able to:

- Describe and propose the methodology for implementation Cleaner Production projects in industrial enterprises based on process and case-study descriptions.
- Describe and motivate the selection of measures for Cleaner Production solutions in the studied cases.
- Describe and explain the function of environmental technical (process internal solutions as well as process external methods) that can be used in order to minimize pollutions to air or water.
- Discuss advantages and disadvantages for different environmental technical solutions.
- Independently collect information from scientific literature and other information sources, make a compilation of this information, and analyse it in a written report.

Course contents

The course is a project oriented advanced course in cleaner production/environmental technology.

The course concists of two project group works. One project is devoted to the execution of Cleaner Production in a specific industrial branch. Besides giving an insight into the industry, the students will practise finding suitable Cleaner Production measures considering technical, economical and environmental aspects of the production.

In project number 2 a specific emission situation to air or water is studied. The task is to analyse this emission situation and propose and motivate different environmental technical solutions (both external and internal technical solutions) in order to solve or minimize pollutions from the activity studied.

Course literature

Kursen är en projektkurs - litteraturen beror av valda uppgifter.

Examination

- PRO2 - Project, 3.0 credits, grading scale: P, F
- PRO1 - Project, 3.0 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.