



F3C5408 Second Law Analysis with Applications 7.5 credits

Exergianalys med tillämpningar

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 F3C5408 valid from Spring 2009

Grading scale

Education cycle

Third cycle

Specific prerequisites

Basic knowledg in engineering themodynamics.

Language of instruction

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

Intended learning outcomes

Increased knowledge in the use of the second law of thermodynamics for analysis of thermal and chemical engineering processes. Emphasis on the applications of the method.

Course contents

Seminars are given. Exercises are included in the course. the method is used in a selected application.

Course literature

Moran, M.J./Availability Analysis plus articles from the literature

Examination

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.

Other requirements for final grade

Exercises have to be passed. One scientific paper is published in a conference or journal by using the method of second law analysis in an application.

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.