



KH1130 Chemical Engineering and Technology 1 7.5 credits

Kemiteknik 1

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

Establishment

Course syllabus for KH1130 valid from Autumn 2007

Grading scale

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

Education cycle

First cycle

Main field of study

Chemistry and Chemical Engineering, Technology

Specific prerequisites

Language of instruction

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

Intended learning outcomes

This course is to give its students basic knowledge of transport phenomena.

Course contents

Basic equations. Rheological course. Applications on how to compute drops in pressure and flow measurement, and on pumps and fans. Flows in porous beds. Heat transfer by means of conduction, convection and radiation. Heat exchangers.

Course literature

McCabe, W. L., Smith, J. C. and Harriott, P., Unit Operations of Chemical Engineering, 7th ed., McGraw-Hill, New York, 2005.

Examination

- TEN1 - Examination, 6.0 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 1.5 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.

Other requirements for final grade

Passed written exam (TEN1; 6 cr.). Passed lab exercises, transport phenomena (LAB1; 1,5 cr.).

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.