



FKE3130 Industrial Catalytic Processes 10.0 credits

Industriella katalytiska processer

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

Establishment

Course syllabus for FKE3130 valid from Autumn 2014

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

To participate in the course you need to be registered as a PhD student at KTH. No further qualifications are needed.

Language of instruction

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

Intended learning outcomes

The PhD course is given by the Chemical Technology unit and has the aim of giving the student knowledge about how industrial processes is build up with catalytic routes, obtaining

knowledge of catalyst characterization techniques, preparation of catalysts and lab-scale reactor design.

Course contents

The course consists of seminars given by the lecturer together with PhD-students presenting one topic or question from each chapter or parts of a chapter from the course book "Fundamentals of Industrial catalytic processes"

Course literature

C.H. Bartolomew and R.J Farraoto, Fundamentals of Industrial catalytic processes, Second edition, Wiley-Interscience, 2006. ISBN: 9780471457138.

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.

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

At the end of the course the student should:

- Have participated in 85% of the seminars, or if not, handed in extra material for each seminar missed.
- Have performed a presentation of a different catalyst topic(your own research), in the end of the course, (characterization, reactor design, catalyst preparation technique etc.) and present three questions to discuss examined the other students about his/hers presentation.
- Present one topic or question from each chapter, each time. Maximum 5-10 min.

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.