



# FKD3050 Techniques for Adsorption Studies 6.0 credits

Tekniker för adsorptionsstudier

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 FKD3050 valid from Spring 2014

## Grading scale

## Education cycle

Third cycle

## Specific prerequisites

Basic university course in surface and colloid chemistry.

## Language of instruction

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

## Intended learning outcomes

- Provide understanding for the principles of ellipsometry, reflectometry, QCM and ESCA

- From primary data obtained from these instruments evaluate properties of adsorbed layers

## Course contents

- Quartz crystal microbalance with dissipation monitoring
- Ellipsometry
- Optical reflectometry
- ESCA

## Course literature

- Scientific articles
- Lecture materials

## 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.

- Approved answers to homeworks

## 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.