FAH3904 Introduction to Asphalt Chemistry 4.0 credits

Introduktion till asfaltskemin

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

Establishment

Course syllabus for FAH3904 valid from Spring 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Registered for PhD-studies.

Language of instruction

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

Intended learning outcomes

Upon completion of this course, the doctoral student shall be familiar with basic chemistry of asphalt.

Course contents

1. Origin of Crude Oil (Petroleum) - Ages and Variations in Formation
2. General Chemistry
3. Organic Chemistry
4. Physical Properties
5. Structures of Multi-Molecular Mixtures: Non-Homogeneous Systems at the Molecular Level
6. Analytical Chemistry Including Methods of Determining Macromolecular and Agglomerated Species
7. Some Typical Analytical Values for Asphalts

Course literature

Course Compendium

Examination

- RAP1 - Report, 2.0 credits, grading scale: P, F
- ÖVN1 - Exercises, 2.0 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.