



# **FKA3020 Supervision Methodology for Undergraduate Projects 6.0 credits**

**Handledningsmetodik för projektarbete**

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

## **Establishment**

Course syllabus for FKA3020 valid from Autumn 2013

## **Grading scale**

G

## **Education cycle**

Third cycle

## **Specific prerequisites**

## **Language of instruction**

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

## **Intended learning outcomes**

The course is open to PhD students, Post Docs, junior faculty and researchers in CHE or related subjects. PhD students enrolled at the School of Chemical Science and Engineering have priority. Participants should be prepared to supervise students working with projects in Chemistry and Chemical Engineering. If there are more applicants than places available on the course, supervisors for the undergraduate course KA1030/1040 have precedence.

### Learning outcomes

The aim of the course is to develop supervision skills and provide knowledge about different methods of supervision. The course will give insight into the supervision process and how a professional approach to supervision is developed and maintained. After completion of the course participants will be able to:

- supervise students individually and in groups
- actively apply supervision methodology
- maintain a good communication with the supervisees
- design tasks that help supervisees reach intended learning outcomes
- reflect on their role as supervisors.

In a larger perspective the course aims to prepare the participant for future supervisory tasks and improve quality of teaching.

## Course contents

### Course main content

The course aims to develop supervision skills in both theory and practice. The theoretical part of the course provides basic knowledge about supervision by defining the role and responsibilities of the supervisor and the supervisee. Different supervision strategies and learning styles are introduced. The course also highlights how to help students achieve intended learning outcomes by maintaining a professional working relation with the supervisee, communicating feedback and handling conflicts. Supervisory strategies are then applied in practice through the supervision of a group of supervisees working with a chemistry related project which is designed within the context of the course.

### Disposition

The course includes a theoretical and a practical part. The theoretical part of the course consists of seminars and exercises including problem-based discussions that illustrate real-life situations encountered while supervising. During the practical part of the course participants will supervise students pursuing first level undergraduate project at CHE. A suitable project is designed for this purpose and the participant supervises students working with the proposed project.

## Course literature

### Peer reviewed articles

## 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.

## Other requirements for final grade

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Two assignments and completion of the practical supervisory task.

## 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.