



FSG3115 Applications of Fundamental Fluid Dynamics 7.5 credits

Tillämpningar av grundläggande strömningsmekanik

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

Establishment

Course syllabus for FSG3115 valid from Spring 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

The course is suitable for research students in Engineering Mechanics. The research student together with the supervisor decides if the course should be part of the study plan.

Language of instruction

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

Intended learning outcomes

After completing this course the research student should be able to;

- be able to, in a pedagogical way, supervise students through laboratory exercises, starting from introducing the theme and apparatus to analysing and reporting the results
- understand how students at different levels perceive new physical phenomena and technical applications
- give a seminar which present the experience as an assistant and give suggestions on improvements in one or several laboratory exercises both regarding execution and pedagogics. Also ideas for new exercises can be presented at the seminar.

Course contents

The course amount to that the research student is laboratory assistant and supervise students in at least three different laboratory exercises. The student will thereby get experience of different student bodies and the difficulties encountered of pedagogical and practical nature that can arise during a laboratory exercise.

Disposition

In total at least 40 laboratories should be supervised, distributed on at least 10 occasions each for three different exercises.

Course literature

Laboratory PM.

Examination

- RAP1 - Report, 7.5 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.

RAP1 Report 7,5 hp (P, F)

Other requirements for final grade

An account for the expected number of laboratory supervision and a seminar, as detailed above

When the two above parts have been completed the research students applies to the examiner to be reported as pass on the course. The examiner checks if the amount of teaching, character and quality is sufficient to pass the course and that the seminar has been approved.

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.