# FSG3104 Current Problems in Fluid Mechanics II 4.5 credits

## Aktuella problem i strömningsmekaniken II

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 FSG3104 valid from Spring 2019

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Participants should be enrolled in a PhD-program related to applications of fluid mechanics.

## Language of instruction

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

## Intended learning outcomes

The student will get new knowledge in specialized current topics in fluid mechanics and / or develop the ability to critically review scientific articles in fluid mechanics.

## Course contents

This is a course with open content which may be specific for each student separately. It is used to gain credits from, e.g. a continual participation in a group reviewing current scientific articles in the area of fluid mechanics, a "fluid mechanics journal club", or a participation in a summer school class on topics in fluid mechanics given by invited speakers, or participation in other advanced lecture series not covered by already registered program courses.

## Course literature

To be announced at the start of the course.

## Examination

- RAP1 - Report, 4.5 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.

RAP1 Report 4,5 hp (P, F)

## Other requirements for final grade

RAP (Report)

For a "fluid dynamics journal club" examination requirements are to be present on the group meetings, give oral presentation and written reports of studied scientific articles as specified by the course leader.

For a "summer school" or "advanced lecture series" is required presence on majority of lectures, completion of project works and/or passed written/oral test as specified by the course leader.

For a specific "reading course" is required completion of homework assignments and written or oral exam assigned by the course leader.

## 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.