



## DEPARTMENT OF PHILOSOPHY, LINGUISTICS AND THEORY OF SCIENCE

### **LOG340 Specialization in Logic 5, 7.5 credits**

Specialisering i logik 5, 7,5 högskolepoäng

*Second Cycle*

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#### **Confirmation**

This course syllabus was confirmed by Department of Philosophy, Linguistics and Theory of Science on 2019-05-31 to be valid from 2019-09-02, autumn semester of 2019.

*Field of education:* Science 100%

*Department:* Department of Philosophy, Linguistics and Theory of Science

#### **Position in the educational system**

The course can be part of the following programme: 1) Logic, Master's programme (H2LOG), and can also be offered as a freestanding course.

*Main field of studies*

Logic

*Specialization*

A1F, Second cycle, has second-cycle course/s as entry requirements

#### **Entry requirements**

For admission to the course successful completion

- of at least 7.5 credits of Logical theory (LOG110),
- of Set theory (LOG120), as well as
- of at least one of Specialisation in logic 1 (LOG230), Specialisation in logic 2 (LOG240) or Specialisation in logic 3 (LOG320),

or the equivalent, is required.

## Learning outcomes

On successful completion of the course the student will be able to:

### *Knowledge and understanding*

- demonstrate substantially in-depth knowledge and understanding in some of logic's subareas or applications,
- relate the newly acquired specialist knowledge with the fundamental areas of logic,

### *Competence and skills*

- formulate and present proofs of the most important results in the course as well as of lemmas that are used in proofs (upon theoretical specialisation),
- apply logical results and methods outside pure research (upon specialisation in an applied field),

### *Judgement and approach*

- critically discuss, analyse and evaluate results in the course as well as their applications,
- demonstrate the ability to work over disciplinary borders.

## Course content

The student, in consultation with individual supervisors, chooses a field of specialisation within logic. It can be theoretically or more applied, research-preparatory or directed towards a non-academic working life, and should be in line with the student's background, planning for degree project, and career plans.

Students are coordinated as far as possible in working groups that jointly focus on an area.

For the individual student, the chosen course content must differ substantially from the corresponding content of LOG230, LOG240, LOG320 and LOG330 but may be allowed to be a broadening or specialisation in the same special field.

## Form of teaching

Teaching is given in the form of lectures, seminars, exercises, individual assignments and group assignments. Compulsory attendance can apply to certain course components, which is indicated in the course schedule.

*Language of instruction:* English

**Assessment**

The course is examined individually in written and/or oral form.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination sessions (including the ordinary examination) during a period of at least one year from the last time the course was given.

**Grades**

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

**Course evaluation**

Students who are currently taking the course or have completed it will be given the opportunity to express their views and share their experiences in an anonymous course evaluation. A compilation of the course evaluation and the course coordinator's reflections on it will be made available to the students within reasonable time after the end of the course. The next time the course is taught the compilation and any measures based on it will be presented to the students.