



DEPARTMENT OF PHILOSOPHY, LINGUISTICS AND THEORY OF SCIENCE

LT2213 Computational semantics, 7.5 credits

Komputationell semantik, 7,5 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Department of Philosophy, Linguistics and Theory of Science on 2018-05-29 and was last revised on 2019-03-14 to be valid from 2019-03-18, spring semester of 2019.

Field of education: Science 100%

Department: Department of Philosophy, Linguistics and Theory of Science

Position in the educational system

The course is part of the Master's programme in Language Technology (H2MLT). It can also be offered as a freestanding course.

The course can be part of the following programmes: 1) Computer Science, Master's Programme (N2COS), 2) Applied Data Science Master's Programme (N2ADS) and 3) Master in Language Technology (One year or Two years) (H2MLT)

Main field of studies

Language Technology

Specialization

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

Entry requirements

Admission to the course requires either successful completion of the courses

- LT2001 Introduction to programming 7.5 credits
- LT2002 Introduction to formal linguistics 7.5 credits
- LT2003 Basic language technology 15 credits

or equivalent language technology skills.

Learning outcomes

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

Knowledge and understanding

- account for the differences between the types of semantic analysis covered in the course
- write semantic interpretation rules for basic semantic constructions in English and at least one other language,

Skills and abilities

- implement semantic grammars using tools provided by programming languages and/or grammar development systems,

Judgement and approach

- make informed judgments about selecting the type of semantics needed for particular language technology applications,
- evaluate particular implemented semantic grammars and construct evaluation materials such as test suites.

Course content

The course gives a basic introduction to model theoretical semantics for natural language (as developed for example in Montague semantics and Discourse Representation Theory) and its implementation using suitable programming techniques. It also introduces theorem proving and its application to reasoning in natural language applications.

Form of teaching

There are laboratory exercises that require attendance for a passing grade.

Language of instruction: English

Assessment

The examination consists of participation in laboratory exercises, assignments and/or a written exam. Compulsory attendance can apply for certain course components. A student who has failed an examination twice has the right to change examiners if it is feasible. The application shall be sent to the board of the department and has to be in writing. Completion of examined student achievement is admitted.

Grades

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

Course evaluation

Students participating in, or having completed the course, are given the chance to anonymously submit their opinions of and suggestions for the course in a course evaluation. A short version of the course evaluation, together with the reflections of the course coordinator, is published and made available to the students within a reasonable time after the course has finished. The next time the course will be given, a short version of the course evaluation will be presented together with any measures implemented.

Additional information