Language Technology

Single subject and programme course

6 credits

Språkteknologi

729G17

Valid from: 2016 Autumn semester

Determined by
The Quality Board at the Faculty of Arts and Sciences

Date determined
2007-06-18

Revision date
2014-11-26; 2016-08-22

Main field of study
Cognitive Science

Course level
First cycle

Advancement level
G1X

Course offered for
- Bachelor´s Programme in Cognitive Science

Entry requirements
For admission to the course, the specific entry requirements that apply for admission to the Bachelor's Programme in Cognitive Science must be satisfied, and the courses Programming and Discrete Mathematics, comprising 6 HE credits, Programming and Logic, comprising 6 HE credits, Linguistics, comprising 6 HE credits, and Computers in Linguistics, comprising 6 HE credits, or the equivalent, must be completed.

Intended learning outcomes
On completion of the course, the student should be able to:
- explain basic methods for the analysis and interpretation of words, sentences, and texts
- practically apply language technology methods and systems to texts and text collections
- evaluate language technology components and systems using standard validation methods
- judge the difficulty and the feasibility of language technology applications

Course content

Language technology is technology for the analysis and interpretation of natural language, a key component of smart search engines, personal digital assistants, and many other innovative applications. The goal of this course is to give an introduction to language technology as an application area, as well as to its basic methods. The course focuses on methods that process text.
The course covers the following areas: Basic methods and techniques for the analysis and interpretation of words, sentences, and texts, such as text segmentation, part-of-speech tagging, syntactic analysis, semantic analysis, and text classification. Language technology systems, such as information extraction systems and question answering systems. Validation methods. Tools, software libraries, and data.

Teaching and working methods

The course is taught in the form of lectures, lab sessions, and seminars in connection with a minor project. The student is expected to study independently, both individually and in groups. If necessary, the course is offered in English.

Examination

The course is examined by lab assignments, project assignments, and a written exam. Detailed information can be found in the study guidelines.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

Three-grade scale, U, G, VG

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus. The course is carried out in such a way that both men´s and women´s experience and knowledge is made visible and developed.

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Department

Institutionen för datavetenskap