

Language Technology

Single subject and programme course

6 credits

Språkteknologi

729G17

Valid from: 2010 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.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

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.

Department
Institutionen för datavetenskap