

# Language Engineering Systems

Single subject and programme course

6 credits

Språkteknologiska system

729A97

Valid from:

**Determined by**

The Quality Board at the Faculty of Arts  
and Sciences

**Date determined**

2010-09-24

## Main field of study

Cognitive Science

## Course level

Second cycle

## Advancement level

A1X

## Course offered for

- Master Programme in Cognitive Science

## Entry requirements

For admission to the course, the specific entry regulations that apply for admission to the master's education in Cognitive Science must be satisfied.

## Intended learning outcomes

On completion of the course, the student should be able to

- account for language engineering methods and applications
- demonstrate an increased ability to independently analyse and solve language engineering problems
- describe and evaluate the contents of scholarly articles in the field of language engineering
- specify and implement a larger language engineering component based on methods and algorithms described in the literature
- apply methods to create language engineering data and models, including methods that are based on automatic learning from text (or speech)
- assess what criteria and measures that are applicable for evaluation of different language engineering components and systems and independently carry out an evaluation.

## Course content

During the course, system architectures, development methods and evaluation methods for language engineering systems are studied. Differences, advantages and disadvantages of rule-based and statistical methods are addressed. Several application areas are addressed, among these are reading and writing support, question answering and dialogue systems, data mining and automatic summation, as well as translation.

## Teaching and working methods

Lectures, seminars and laboratory sessions, including a larger project. The student is expected to study independently, individually or in groups.

## Examination

The course has two examination parts. The first part is examined through active participation and written reports of the seminars. The second part is examined through a number of project assignments that involve implementing a system.

## Grades

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## 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