



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

4DV009 Språkteknologi II, 7,5 högskolepoäng
Language Technology II, 7.5 credits

Main field of study
Computer Science

Subject Group
Informatics/Computer and Systems Sciences

Level of classification
Second Level

Progression
A1F

Date of Ratification
Approved by Organisational Committee 2009-09-08

The course syllabus is valid from spring semester 2010

Prerequisites
A course in Language Technology, 7,5 ECTS at level 2 or equivalent.

Expected learning outcomes

Upon completion of the course, the student should be able to:

- account for stochastic n-gram models and their use in language technology
- account for the most common techniques for lexicalized and stochastic parsing
- design and implement a parser based on dynamic programming
- account for central concepts of lexical semantics and word sense disambiguation
@@design and implement a simple system for stochastic word sense disambiguation
- account for central concepts within information retrieval, discourse modeling, dialogue systems and machine translation.

Content

The course content consists of a complementary overview of areas of language technology not covered in the course Language Technology (DA3053) and of an in-depth study of lexicalized and stochastic methods for natural language analysis.

Type of Instruction

Teaching consists of lectures, seminars and self studies.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG)

(VU).

Written examination and/or assignments which are presented orally and/or in written form. The assessment method will be decided at the start of the course.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required reading

Jurafsky, D. and Martin, J. H., *Speech and Language Processing*. Prentice-Hall, 2000. Pages 400 (934).