



LI116N Theory and Models of Information Retrieval 4.5 credits

Teoretiska modeller för informationsåtervinning och informationsanalys

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for LI116N valid from Autumn 2010

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

The course is for KTH students only. Previous registration on a KTH course is mandatory, preferably on a course with mathematical content, since the course in some parts assumes mathematical maturity.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

On completion of the course, the student shall be able to:

- * describe and explain central theoretical concepts in advanced information retrieval,
- * describe and analyse differences between classical models of information retrieval, and
- * evaluate the effectivity of search queries through different retrieval measures.

Course contents

- * IR models
- * Search query evaluation
- * Text and search query operations

Disposition

Web-based course.

Course literature

Course literature is Manning, Christopher D., Raghavan, Prabhakar & Schütze, Hinrich (2008). Introduction to information retrieval. New York: Cambridge University Press. (Complementary reading, optional: Croft, Metzler, Strohman. Search Engines: Information Retrieval in Practice.) Additional material, distributed as hand-outs.

Equipment

Access to a computer with an Internet connection and web browser is an absolute requirement. Students should obtain a library card from the KTH Library before starting the course.

Examination

- INL1 - Assignment, 1.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Note that all exercises (1) must be passed first before the student may take the exam (2).

Other requirements for final grade

A pass mark requires

1. Satisfactory results in exercises and assignments, followed by
2. Satisfactory result on a written exam.

Students who have failed the exam will have the possibility to attend additional exams according to the rules for KTH.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.