



FLI3116 Scientific Publishing, Information Retrieval and Bibliometrics 3.0 credits

Vetenskaplig publicering, information retrieval och bibliometri

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 FLI3116 valid from Autumn 2012

Grading scale

Education cycle

Third cycle

Specific prerequisites

The student should be admitted as a PhD-student at KTH. Exception can be made after mutual agreement. PhD-students at KTH have precedence.

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 the history and present state of the field of scientific communication.
- *describe and critically analyze different models of scientific publishing from a subject-specific perspective
- *explain and critically discuss basic bibliometric methods for evaluation and description of science
- *explain and critically discuss different evaluation and ranking systems of science in the sciences
- *describe the structure and indexing in scientific reference databases
- *apply a number of important algorithms within information retrieval
- *apply relevant tools for productive use of results, and
- *employ established norms for references and citations.

Course contents

More specifically, on completion of the course, the student shall know the important paths which constitute scientific communication and how these can be utilized so as to improve the student's own publication strategies.

Course literature

Aktuell litteraturlista anslås på kursens webbsida, i Bilda eller KTH Social före kursstart.

-Dessutom tillkommer relevant litteratur beroende på valda inlämningsuppgifter.

-Bibliografi i urval:

1. W Glänzel, "Bibliometrics as a research field: A course on theory and application of bibliometric indicators", 2003 http://nsdl.niscair.res.in/bitstream/123456789/968/1/Bib_Module_KUL.pdf
2. Fredrik Åström m.fl., Celebrating scholarly communication studies □ : A Festschrift for Olle Persson at his 60th Birthday, 2009 <http://umu.diva-portal.org/smash/record.jsf?pid=diva2:232838>
3. Anne-Wil Harzing, The Publish or Perish Book
4. H. F. Moed, Citation analysis in research evaluation, Information science and knowledge management, 1568-1300 □ ; 9 (Dordrecht: Springer, 2005).
5. Manning m.fl, Introduction to Information Retrieval (Cambridge:CUP, 2008).

Examination

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.

Grading: Pass/Fail

Other requirements for final grade

A pass mark requires a pass mark on XUPP 3.0 credits, which is manifested in satisfactory results on the following points:

1. active participation in all seminars with discussion and presentation of own and other people's work
2. satisfactory results in written and oral exercises
3. attendance at all mandatory sessions

Note: the assignments and written examination shall all be done individually by each student; group work is not allowed.

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.