



LUND
UNIVERSITY

Faculty of Engineering, LTH
LTH Faculty-wide

Course Syllabus GEM045F
2013-05-28

Scientific Information Management (Vetenskaplig informationshantering)

Scientific Information Management is an elective faculty-wide third-cycle (PhD) course at the Faculty of Engineering. The main target group for this course is newly engaged PhD students, but all PhD students are welcome to apply.

Aim: The overall objective of the course is to give students instruction and training in scientific information management. Upon completion of the course the participants will have gained knowledge about scientific information management both in general and within the specific research area in which they are working.

Learning outcomes: Knowledge and understanding

For a Pass on the course, participants shall

- have the knowledge and skills to search for information, be able to select relevant sources and know how to use them
- have gained knowledge about scientific information management both in general and within the specific research area in which they are working.

Competence and skills

For a Pass on the course, participants shall

- be able to identify their information needs
- be able to use information from different sources to increase their scientific knowledge and the knowledge of the scientific community
- be able to build up a personal reference collection of important quality-controlled information resources in their subject.

Judgement and approach

For a Pass on the course, participants shall

- be able critically examine and reflect on the quality and relevance of found information.

Content:

Databases: database structure, search tools and search strategies, problem-oriented database presentation, specific possibilities and restrictions, inventory of tool boxes, the Web of Science, patent databases, database analysis.

Library resources: library catalogues, interlibrary loans, electronic journals and other full text resources.

Internet searching, quality-controlled link collections in specific subjects, reference management systems, scientific communication and publication, LUP, copyright –

rights and obligations with practical advice in matters which may arise during PhD studies.

- Instruction:** The course comprises a series of lectures, workshops and individual project. In the project the participants will analyse the information structure and communication tradition within their own research area, based on the scientific literature. The project is presented in a written report and at an oral presentation for the other course participants. The time set aside for the project is one week.
- Assessment:** For a Pass on the course, the participant must have attended at least 80 % of the scheduled activities, have given a problem-oriented oral presentation and evaluation of a database, based on given criteria and her/his information needs and passed the project work, including a written and an oral presentation of the project.
- If there are extenuating circumstances some parts of the assessment can be performed differently.
- Scope:** The course corresponds to 2 weeks of full-time work and to 3 credits in third-cycle (PhD) studies (with Pass and Fail as available grades), if this is in line with the individual study plan.
- A current timetable is available on the course homepage.
- Admission:** To be admitted to the course applicants have to be part of a PhD programme at LTH.
- Selection:** Priority is given to: 1) PhD students who have previously applied to the course and were eligible at the time, 2) PhD students most recently accepted for PhD studies.
- Language:** The course is taught in English.
- Homepage:** http://www.lth.se/omlth/kompetensutveckling/gemensamma_forskarutbildningskurser
- Reading:** The required reading is determined on the basis of the participants' choice of project work.
- Course directors:** Head Librarian **Maria Johnsson** (maria.johnsson@bibliotek.lth.se)
- Information on current teachers on the course is available on the course homepage.
- Category:** The course is a faculty-wide third-cycle (PhD) course at LTH.
- Other:** -