



## DEPARTMENT OF LEARNING, INFORMATICS, MANAGEMENT AND ETHICS

### **C7F5302, Information Literacy, Philosophy of Science and Research Ethics, 3 credits (hec)**

Informationskompetens, vetenskapsteori och forskningsetik, 3 högskolepoäng

*Third-cycle level / Forskarnivå*

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#### **Approval**

This syllabus was approved by the The Committee for Doctoral Education on 2023-12-07, and was last revised on 2024-04-18. The revised course syllabus is valid from spring semester 2024.

#### ***Responsible department***

Department of Learning, informatics, Management and Ethics, Faculty of Medicine

#### **Prerequisite courses, or equivalent**

No prerequisite courses, or equivalent, demanded for this course.

#### **Purpose & Intended learning outcomes**

##### **Purpose**

The aim of this course is to enhance the doctoral student's capacity to identify, analyse and critically reflect upon theories, concepts and problems in information literacy, philosophy of science and research ethics, especially problems that may rise in relation to medical research. The aim is also to provide the doctoral students with extended possibilities to develop a scientific and ethical approach to medical research.

##### **Intended learning outcomes**

After the course the student is expected to be able to:

with respects to Information Literacy:

- 1) describe how search strategies are created and adjusted to a specific information source/database, and
- 2) be able to compare, evaluate and manage the outcome of different search strategies.

with respects to Philosophy of Science:

- 1) account for central concepts and theories in philosophy of science,
- 2) account for common problems that arise in the area of the philosophy of science, and
- 3) identify, analyze and discuss problems that arise in the area of philosophy of science, especially in the field of medical sciences.

with respects to Research Ethics (in accordance with <https://ki.se/en/staff/purpose-and-requirements-for-doctoral-courses-in-research-ethics>):

- 1) account for important research ethical theories, principles and, to a certain extent, guidelines,
- 2) account for common problems that arise in the area of research ethics,
- 3) identify, analyze and discuss ethical problems and conflicts that might emerge in the area of research on humans and animals, and
- 4) be able to carry out a research ethical argumentation for or against a particular procedure.

## Course content

The course provides general scientific knowledge in a coherent block as an introductory basis for further doctoral education. The main content of the course:

Philosophy of science and research ethics 2 hp (Research ethics 1.5, philosophy of science 0.5)  
Information literacy 1 hp

## Forms of teaching and learning

The pedagogic framing is based on student activity with interactive lectures, seminars and workshops. The scheduled face-to-face activities in the course will be mixed with individual work and feedback from teachers and peers via the web-based platform Canvas.

### *Language of instruction*

The course is given in English

## Grading scale

Pass (G) /Fail (U)

## Compulsory components & forms of assessment

### Compulsory components

Assignments, seminars and group activities. Absence from seminars and group activities can be compensated by replacement activities.

### Forms of assessment

The knowledge, skills and attitudes acquired in the course will be assessed through written assignments and oral presentations. For a pass grade, the course participant has to show that all

intended learning outcomes of the course have been achieved.

## Course literature

Recommended literature:

Information Literacy

Bettany-Saltikov, J. (2012). How to do a systematic literature review in nursing: A Step-by-step guide [Elektronisk resurs]. Kapitel 5. E-resource via reSEARCH på <https://kib.ki.se>

or

Statens beredning för medicinsk och social utvärdering (2020). Utvärdering av metoder i hälso- och sjukvården: en handbok [Elektronisk resurs] (4., rev. uppl.). Kapitel 4. Tillgänglig från <https://www.sbu.se/metodbok?pub=48286> (for course participants who understand Swedish)

Philosophy of Science and Ethics

Johansson & Lynoe (2008) *Medicine and Philosophy. A twenty first century introduction*. Ontos förlag.