



## Course syllabus

Faculty of Technology

Department of Physics and Electrical Engineering

4TE008 Yrkeskunskapsteori, 15 högskolepoäng

Skill and Epistemology, 15 credits

**Main field of study**

Skill and Technology

**Subject Group**

Other Interdisciplinary Studies

**Level of classification**

Second Level

**Progression**

A1N

**Date of Ratification**

Approved 2015-08-18

Revised 2018-06-08 by Faculty of Technology. Literature list is revised.

The course syllabus is valid from autumn semester 2018

**Prerequisites**

General entry requirements for studies at second-cycle level.

### Objectives

After completing the course the student should:

- Have acquired an understanding of his/her own professional skill informed by the history of ideas and the philosophy of knowledge
- Be able to problematize and have a critical approach to trends of current interest concerning formalization of professional skill
- Be able to conduct a critical discussion about the idea that the computer can be looked upon as a metaphor of the cognitive capacity of the human being
- Show ability to consider of how his/her professional skill can be related to different traditions of knowledge

## Content

- Concepts of case study, dialogue, tacit knowledge, the dream of the exact language
- The importance of the history of ideas and philosophical perspectives in connection to the understanding of the about the exact language and the computer as a metaphor for the brain and the cognitive capacity of the human being
- The paradoxical meeting between the theoretical and the practical tradition of knowledge
- The difference between human expertise and AI-models based on rules and regulations
- The consequences of formalization in connection to professional skill

## Type of Instruction

The education is carried out through assemblies at campus on two occasions each semester, consisting of lectures and dialogue seminars. Each assembly last two days. In addition to these assemblies there is a third one-day assembly scheduled for examination.

## Examination

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

The student is assessed individually at a seminar. At the seminar there is opposition, discussion and defense.

## Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed at the Faculty.

## Required Reading and Additional Study Material

### **Obligatory Literature**

Presentation av Dialogseminariemetoden ur boken: Erfarenheter och processer - en metod för reflekteraden ledarskap, av Jan Sjunnesson, sid 19-26. (pdf)Collins, Harry (2010). Tacit&Explicit Knowledge. Chicago: The University of Chicago Press  
Fock Niclas (2004) Eventyrslyst och risker – en explorative studie om framväxten av dialogseminariemetoden. Stockholm Dialoger  
Göranzon, Bo (2009) Det praktiska intellektet, Stockholm, Santérus förlag  
Hammarén, Maria (2005) Skriva en metod för reflektion, Stockholm: Santérus förlag  
Hoberg, Christer (2006) Komplexitetsmax, Stockholm, Dialoger  
Ratkic, Adrian (2006) Dialogseminariets forskningsmiljö, Stockholm, Dialoger  
Tillberg, Peter (red) (2002) Dialoger om yrkeskunnande och teknologi, Stockholm: Dialoger

Other relevant literature will be selected together with the supervisor.