Institutionen för data- och systemvetenskap (DSV)

Stockholms universitet

Kursplan

för kurs på forskarnivå

Forskningsmetodik I **10.0 Högskolepoäng**

Research Methodology I **10.0 ECTS credits**

Kurskod:	ML3FU30
Gäller från:	VT 2017
Institution	Institutionen för data- och systemvetenskap

Förkunskapskrav och andra villkor för tillträde till kursen

Enrolled to a PhD program

Lärandemål

After the course students are able to:
· Understand and discuss the application of qualitative and quantitative methods
· Discuss and explain the philosophical and practical differences between the qualitative and quantitative methods
· Examine and discuss strengths and weaknesses of qualitative and quantitative data collection and analysis methods.

Innehåll

The aim of the course is to provide the participants with a broad base for PhD studies in computer and systems sciences as well as its scientific base and societal aspects. The methodological understanding will focus on skills as a reviewer of other's research, both in the general research area and the student's specific subarea.
The course consists of a number of discussion seminars, prepared for by each participant, focusing on different aspects. An example structure is:
Seminar 1: Science, computer and systems science, and societal aspects.
Seminar 2: Quantitative analysis - discussion of the findings of the methodological literature review on selected papers.
Seminar 3: Qualitative analysis - discussion of the findings of the methodological literature review on selected papers.
Seminar 4: Qualitative analysis - discussion of the findings of the methodological literature review on the student's own research area.
Seminar 5: Quantitative analysis - discussion of the findings of the methodological literature review on the student's own research area.
Seminar 6 Discussion and presentation of student reports consisting of the scientific and societal aspects of research in one owns research area (with a broad reading of what that area is) and the improved literature reviews of seminar 4 and 5.

Obligatoriska moment

The course consists of a number of discussion seminars, prepared for by each participant, focusing on different aspects. An example structure is:
Seminar 1: Science, computer and systems science, and societal aspects.
Seminar 2: Quantitative analysis - discussion of the findings of the methodological literature review on selected papers.

Seminar 3: Qualitative analysis - discussion of the findings of the methodological literature review on selected papers.
Seminar 4: Qualitative analysis - discussion of the findings of the methodological literature review on the student's own research area.
Seminar 5: Quantitative analysis - discussion of the findings of the methodological literature review on the student's own research area.
Seminar 6 Discussion and presentation of student reports consisting of the scientific and societal aspects of research in one owns research area (with a broad reading of what that area is) and the improved literature reviews of seminar 4 and 5.

Examinationsformer

a. Decision regarding examination are taken by the course leader appointed by the head of the department.
b. Assessment is done according to the grading scale :
P/F
c. Grading criteria of the course is announced in the beginning of the course.
The course is examined continuously. Total amount of credits: 10.
d. To receive a final grade for the whole course, grade Passed is required for all the assignments.
e. In addition, the student who:
- has received at least grade P cannot raise the grade by a new exam
- has taken the same exam twice with the same examiner without passing has a right to a new examiner, provided that no special reasons against this exist.

Arbetsform

Teaching consists of seminars, reading of literature and writing. The number of hours studied is estimated at approximately 275 hours including approximately 30 hours (12%) seminars. The remainder of the time is study without a teacher that the student must devote to reading of literature, preparing presentations, and writing assignments.