



KURSPLAN

Research Methods, 7,5 högskolepoäng

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Kurskod:	TRER20	Utbildningsnivå:	Avancerad nivå
Fastställd av:	VD 2020-06-01	Utbildningsområde:	Tekniska området
Gäller fr.o.m.:	2020-08-01	Ämnesgrupp:	DT1
Version:	1	Fördjupning:	A1N
		Huvudområde:	Informatik

Lärandemål

After a successful course, the student shall

Kunskap och förståelse

- display in depth knowledge and understanding regarding research methods in their main field of study
- display knowledge of key concepts in the philosophy of science
- display knowledge of key concepts in general research methodology
- demonstrate comprehension of research directions in the main field of study

Färdighet och förmåga

- demonstrate the ability to independently identify relevant research topics and formulate relevant research designs in the main field of study
- demonstrate the skills required to participate in research and development work

Värderingsförmåga och förhållningssätt

- demonstrate the ability to show judgment skills in the main field of study with respect to relevant scientific aspects, and demonstrate an awareness of ethical aspects of research and development
- demonstrate the ability to show insight into the possibilities and limitations of research, its role in society and the responsibility for its use
- demonstrate the ability to identify the own need of further knowledge and to take responsibility for their further knowledge development

Innehåll

The course covers basic concepts of research, science, and epistemology. Moreover, the course includes a specialization in research within the main field of study regarding methodological approaches, use of theory, data collection techniques and literature search. The course includes elements, such as quantitative and qualitative data analysis, critical review of scientific work, research validity and reliability assessment, ethical considerations, and completion of an anti-plagiarism guide. The course allows the students to apply beforementioned knowledge in assignments and seminars. Furthermore, the course includes a project that consists of writing a

proposal for the students' degree thesis work.

Undervisningsformer

Lectures, seminars, tutorials, assignments and project

Undervisningen bedrivs på engelska.

Förkunskapskrav

Passed courses totalling 180 credits in first cycle, at least 90 credits within the major subject in Computer Engineering, Electrical Engineering (with relevant courses in Computer Engineering), Informatics, Computer Science, Interaction Design (with relevant courses in web programming) or equivalent.

Examination och betyg

Kursen bedöms med betygen 5, 4, 3 eller Underkänd.

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Examination	3 hp	5/4/3/U
Inlämningsuppgifter och seminarier	3 hp	U/G
Projekt	1,5 hp	5/4/3/U

Kurslitteratur

Litteratur

The literature list for the course will be provided one month before the course starts.