



KURSPLAN

Research Methods, 6 högskolepoäng

Research Methods, 6 credits

Kurskod:	TFDR28	Utbildningsnivå:	Avancerad nivå
Fastställd av:	VD 2019-06-01	Utbildningsområde:	Tekniska området
Gäller fr.o.m.:	2019-08-01	Ämnesgrupp:	DT1
Version:	1	Fördjupning:	A1N

Lärandemål

After a successful course, the student should

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

Färdighet och förmåga

- demonstrate the ability to independently formulate relevant research designs in the main field of study
- demonstrate the ability 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, as well as various research perspectives / approaches. The course also includes a specialization in research within the main field of study comprising the different methodological approaches, how theory can be used, techniques for data collection, primary and secondary data characteristics and literature search. Also included are methods for analysis of quantitative and qualitative data, the concepts of validity and reliability, critical review of own and others' work, and ethical aspects of research including completion of the anti-plagiarism guide. The course also include to apply this

knowledge in assignments.

Undervisningsformer

Lectures, seminars, tutorials, assignments

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 will only be issued after satisfactory completion of all assessments.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Individuell tentamen ¹	3 hp	5/4/3/U
Inlämningsuppgifter och seminarier	3 hp	U/G

¹ Bestämmer kursens slutbetyg vilket utfärdas först när samtliga moment godkänts.

Kurslitteratur

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

Title: Research methods for students and professionals, 2nd ed.

Author: Williamson, K. (2002)

Publisher: Centre for Information Studies, Wagga Wagga, NSW