



## KURSPLAN

# Research Methods and Evidence-based Practice, 7,5 högskolepoäng

*Research Methods and Evidence-based Practice, 7.5 credits*

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<b>Kurskod:</b>	HRMS21	<b>Utbildningsnivå:</b>	Avancerad nivå
<b>Fastställd av:</b>	Utbildningsrådet 2021-04-13	<b>Utbildningsområde:</b>	Medicinska området
<b>Gäller fr.o.m.:</b>	2021-11-01	<b>Ämnesgrupp:</b>	MT2
<b>Version:</b>	1	<b>Fördjupning:</b>	A1F
<b>Diarienummer:</b>	Department of Rehabilitation	<b>Huvudområde:</b>	Ortopedteknik

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### Lärandemål

Upon completion of the course the student should have the ability to:

#### Kunskap och förståelse

- explain processes and challenges related to implementation of evidence-based practice
- describe implementation of research and development outcomes from an evidence-based perspective.

#### Färdighet och förmåga

- compare and contrast differences in research designs and methodologies used in research related to assistive technologies
- discuss and debate important issues in research ethics, including responsibility for research, data management, ethical vetting, and scientific misconduct
- execute data collection and analyses using both qualitative and quantitative data
- critically evaluate the quality of published scientific literature
- critically evaluate research in relation to the concepts of validity/reliability and trustworthiness.

#### Värderingsförmåga och förhållningssätt

- critically assess the need for ethics in research and development
- reflect over evidence-based practice from ethical, societal and social perspectives.

### Innehåll

- foundations of scientific theory and their role in the choice of scientific methods
- research ethics
- research design
- scientific rigour and quality
- evidence in practice
- implementation of evidence-based practice

### Undervisningsformer

The course is implemented through lectures, case studies, written assignments and group

tutorials.

Undervisningen bedrivs på engelska.

### **Förkunskapskrav**

The applicant must hold a minimum of a Bachelor degree or equivalent (i.e. the equivalent of 180 credits at an accredited university) in prosthetics and orthotics or mechanical engineering. Proof of English proficiency is required. Also the applicant must successfully have completed the course Co-production in Health and Welfare, 7.5 credits.

### **Examination och betyg**

Kursen bedöms med betygen A, B, C, D, E, FX eller F.

Examination of the course will be based upon one individual written assignment, one group presentation and multiple seminars.

A senior lecturer serves as examiner for the course.

In individual written assignment FX will not be applied.

Poängregistrering av examinationen för kursen sker enligt följande system:

<b>Examinationsmoment</b>	<b>Omfattning</b>	<b>Betyg</b>
Individual written assignment	6,5 hp	A/B/C/D/E/FX/F
Group presentation	0,5 hp	U/G
Seminars	0,5 hp	U/G

### **Kurslitteratur**

Creswell, J.W. (2013). Research design. SAGE Publications Inc.

Day, R. A. (1998). How to Write & Publish a Scientific Paper. Cambridge University Press.