



KURSPLAN

Theory of Science and Scientific Method, 15 högskolepoäng

Theory of Science and Scientific Method, 15 credits

Kurskod:	HTSR23	Utbildningsnivå:	Avancerad nivå
Fastställd av:	Utbildningsrådet 2022-04-12	Utbildningsområde:	Vård
Reviderad av:	Utbildningschef 2023-04-21	Ämnesgrupp:	TR1
Gäller fr.o.m.:	2023-08-28	Fördjupning:	A1N
Version:	2	Huvudområde:	Arbetssterapi

Lärandemål

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

Kunskap och förståelse

- differentiate between traditional approaches in theory of science
- describe and assess appropriate qualitative and quantitative research methods in relation to different kinds of research questions
- describe ethical considerations within qualitative and quantitative research methods
- explain what signifies trustworthiness as well as validity and reliability in qualitative and quantitative studies.

Färdighet och förmåga

- problematize and specify research questions in a particular field of study
- apply ethics in research
- perform studies using qualitative and quantitative research methods.

Värderingsförmåga och förhållningssätt

- evaluate and discuss approaches in theory of science in relation to a research question
- assess the quality of qualitative and quantitative studies.

Innehåll

Module 1. Philosophical principles of research and approaches of theory of science, 3 credits

- approaches in theory of science

Module 2. Qualitative research methods, 5 credits

- research design using qualitative research methods
- trustworthiness
- research ethics

Module 3. Quantitative research methods, 5 Credits

- research design using quantitative research methods
- validity and reliability
- research ethics

Module 4. Thesis proposal, 2 Credits

- research design using qualitative or quantitative research methods
- trustworthiness or validity and reliability
- research ethics

Undervisningsformer

The course is given as a web-based course. Learning activities include lectures, seminars, practical exercises, and group discussions.

Undervisningen bedrivs på engelska.

Förkunskapskrav

Kandidatexamen 180 hp eller motsvarande inom huvudområdena hälsa och vårdvetenskap, beteendevetenskap, socialt arbete inklusive ett avslutat examensarbete om minst 15 hp (eller motsvarande kunskaper).

Examination och betyg

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

Module 1. Philosophical principles of research and approaches of theory of science, 3 Credits

A written group assignment.

Module 2. Qualitative research methods, 5 Credits

An individually written assignments and an oral group assignment.

Module 3. Quantitative research methods, 5 Credits

Two individually written assignments.

Module 4. Thesis proposal, 2 Credits

A written thesis proposal with a qualitative or quantitative research design, an oral defense of the proposal, and an opposition of a proposal.

A university senior lecturer serves as examiner for the course.

Poängregistrering av examinationen för kursen sker enligt följande system:

Examinationsmoment	Omfattning	Betyg
Module 1. Forskningens filosofiska grunder och vetenskapsteor. synsätt	3 hp	A/B/C/D/E/FX/F
Module 2. Kvalitativa vetenskapliga metoder	5 hp	A/B/C/D/E/FX/F
Module 3. Kvantitativa vetenskapliga metoder	5 hp	A/B/C/D/E/FX/F
Module 4. Projektplan	2 hp	U/G

Kurslitteratur

American Psychological Association. (2019). *Publication manual of the American Psychological*

Association (7th ed.). American Psychological Association.

Brinkmann, S., & Kvale, S. (2018). *Doing interviews* (2nd ed.). SAGE Publications Ltd.

Chalmers, A.F. (2013). *What is this thing called science?* (4th ed.). University of Queensland Press.

Creswell, J.W., & Creswell, J.D. (2018). *Research design: qualitative, quantitative, and mixed method approaches* (5th ed.). SAGE Publications Inc.

DePoy, E., & Gitlin, L. N. (2020). *Introduction to research: understanding and applying multiple strategies* (6th ed.). Elsevier.

Field, A. (2018). *Discovering statistics using IBM SPSS statistics* (5th ed.). SAGE Publications, Inc.

Gustavii, B. (2017). *How to write and illustrate a scientific paper* (3rd ed.). Cambridge University Press.

Iphofen, R. (Ed.) (2020). *Handbook of research ethics and scientific integrity* (1st ed.). Springer.

The latest edition of the course literature should be used.

In addition: scientific articles and reports depending on main area and chosen research method.