SYLLABUS

Design and analyses of intervention studies 7.5 credits S7037H

Design och analys för interventionsstudier

Course syllabus admitted: Autumn 2016 Sp 1 - Autumn 2019 Sp 2

DECISION DATE
2016-02-12

Luleå University of Technology 971 87 Luleå, Sweden
Phone: +46 (0)920 49 10 00 • Corporate Identity: 202100-2841

LULEÅ TEKNISKA UNIVERSITET

Design and analyses of intervention studies 7.5 credits S7037H

Design och analys för interventionsstudier

Second cycle, S7037H

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG *	Fysioterapi	Therapy, Rehabilitation and Dietary Treatment

Main field of study

Occupational Therapy

Entry requirements

Bachelor or degree in nursing, occupational therapy, physiotherapy, health sciences of 180 credits or equivalent. Course in quantitative and qualitative methodology at advanced level.

Selection

The selection is based on 30-285 credits

Examiner

Lars Nyberg

Course Aim

After completing the course, students must be able to:

- 1) Explain different intervention designs and argue for the potential, limitations and role in research of different intervention designs.
- 2) Evaluate and critically examine intervention designs in relation to applied studies in health sciences
- 3) Apply, select, discuss and evaluate methods for the quantitative analysis of issues in health sciences
- 4) Demonstrate the ability to assess and argue for ethical aspects in relation to different intervention designs
- 5) Design an intervention study in health sciences that demonstrates the ability to critically and independently formulate research questions and, using suitable methods and ethical consideration, plan how to carry out an intervention study that contributes to further knowledge

Contents

- Guidelines and designs for interventions regarding people's function, activity, participation and health
- Case studies with both descriptive and experimental designs
- Quantitative research designs
- Normal statistical inferential and non-inferential analysis methods, including multiple analyses and single system analyses
- Sampling and power calculations
- Ethics, validity, reliability and generalisability for intervention study design

Realization

Each course occasion´s language and form is stated and appear on the course page on Luleå University of Technology's website.

The pedagogical basis of the course is the knowledge-building approach. This method of working means that students actively seek and solve problems by means of an exploratory and critically reflective approach. Teaching will be in the form of seminars on study tasks, lab work and recorded lectures and demonstrations.

The course is given through distance education and requires Microsoft Excel and SPSS software as well as internet access with audio and video communication.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided.

To gain a pass, students must achieve the goals of the course through the following examination tasks:

- Goals one to three are assessed continuously through the submission of assignments that are graded, together with a final individual examination (test 0001)
- Goals four to five are assessed through an individual written assignment (test 0002).

Grade criteria for G and VG are specified in the Study Guide

Remarks

This course is given for second-cycle studies.

Literature. Valid from Autumn 2016 Sp 1

- Dawson B, Trapp RG. Basic & clinical biostatistics, 4th ed. New York :Lange Medical Books/McGraw-Hill, 2004. ISSN:1045-5523.
- Yin, R.K. (2013). Case study research. Design and methods. Thousand Oaks: Sage Publications.

A list of international guidelines, articles and other supplementary material is found in the Study Guide. Students are also expected to search for articles in their own subject area in connection with the course

Course offered by

Department of Health, Education and Technology

Items/credits

No items/credits available

Syllabus established

by Prefekt vid Institutionen för hälsovetenskap 2016-02-12