

**SYLLABUS**

# **Design and Application of Scientific Methodology within physiotherapy 7.5 credits S7042H**

**Design och tillämpning av vetenskaplig metodik inom fysioterapi**

**Course syllabus admitted: Autumn 2018 Sp 1 - Present**

**DECISION DATE  
2018-02-15**

# Design and Application of Scientific Methodology within physiotherapy 7.5 credits S7042H

## Design och tillämpning av vetenskaplig metodik inom fysioterapi

### Second cycle, S7042H

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

### Main field of study

Physiotherapy

## Entry requirements

## Selection

The selection is based on 30-285 credits

## Examiner

Lars Nyberg

## Course Aim

The student should, on completion of the course, show advanced methodological knowledge in scientific work in the subject physiotherapy and be able to:

1. Formulate scientific issues with a quantitative approach.
2. Apply, critically evaluate, and argue for quantitative research approaches and common statistical methods for comparisons between groups and associations between variables in relation to the subject of physiotherapy.
3. Formulate scientific issues with a qualitative approach
4. Analyse qualitative data by comparing, exploring relationships and critically processing data
5. Argue for, relate to, and discuss qualitative research approaches in relation to the subject of physiotherapy.

## Contents

- Quantitative and qualitative research design and methodology for data collection
- Basic quantitative analysis methods; descriptives, analyses with statistical inference of associations between variables and differences between groups
- Qualitative content analysis; data collection and analysis of qualitative data, critical data

## Realization

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

The course has its educational basis in a knowledge-building working method. This working method is characterised by the student actively searching for and solving problems through an examining and critically reflective working method. Learning takes place in scheduled lectures, seminars and laboratory sessions and the solving of study assignments related to reading list, course material and individually searched materials. Software for statistical analysis will be used.

## 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. For the grade pass, it is required that the student achieve the course objectives through the following examination parts:

- Objectives 1-2 are examined through individual examination
- Objectives 3-5 are examined through written assignment

Grading criteria for pass and pass with distinction are stated in the study guide.

## Remarks

This course is given for second-cycle studies. Study guide is provided in the course room in Canvas.

The course replaces S7022H

## Overlap

The course S7042H is equal to S7022H

## Literature. Valid from Autumn 2018 Sp 1

Carter, R Ed (2011). Rehabilitation Research Principles And Applications. Elsevier Health Sciences , ISBN: 9781437708400

Granskär, M. & Höglund-Nielsen, B. (2008) Tillämpad kvalitativ forskning inom hälso-och sjukvård. Studentlitteratur AB. Lund.

Scientific articles and copied material to be added

Search books in the library »

## Course offered by

Department of Health, Education and Technology

## Items/credits

No items/credits available

## Syllabus established

by Prefekt vid Institutionen för hälsovetenskap 2018-02-15