

**SYLLABUS**

# **Physiotherapy: Design and application of quantitative methodology 7.5 credits S7044H**

**Fysioterapi: Design och tillämpning av kvantitativ metod**

**Course syllabus admitted: Autumn 2023 Sp 1 - Present**

**DECISION DATE  
2021-02-11**

# Physiotherapy: Design and application of quantitative methodology 7.5 credits S7044H

## Fysioterapi: Design och tillämpning av kvantitativ metod

### Second cycle, S7044H

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

Bachelor in physical therapy

## Selection

The selection is based on 30-285 credits

## Course Aim

After the course the student should with a critical perspective be able to:

- Apply statistical methods
- Explain scientific theoretical perspectives in relation to quantitative research design
- Critically evaluate and argue for design and method in quantitative intervention studies of relevance to physiotherapy, taking into account ethics and gender equality.
- Designing a quantitative data collection and analysis for a question of relevance to physiotherapy and motivate method choices and research ethics considerations

## Contents

Quantitative research design with a focus on intervention design

Quantitative data collection methodology

Statistical analyzes with a focus on descriptive analysis, analysis with statistical inference of relationships between two or more variables and of differences between two or more groups

Research ethics aspects of quantitative research designs

Scientific theoretical grounds for quantitative methodology

Gender equality and diversity perspectives in quantitative research

## 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 is given using distance learning methodology, and is web-based. The studies require computer skills and internet access, as well as a headset and a webcam. The course has its pedagogical basis in LTU's pedagogical idea. This working method is founded on the idea that each student should be inspired to become engaged, as well as independent and active learning that challenges her/his abilities. The student shall actively seek out and solve problems through exploratory and critically reflective working methods. The course is read together with occupational therapy master's students with subject specialisation. The teaching is conducted through literature studies, lectures, seminars, oral and written presentations and independent project work.

## 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. Achievement of the course is evaluated continuously, and to obtain a passing grade the student must have fulfilled the objectives of the course. Achievement of the objectives is assessed in writing and orally through assignments, seminars and presentations.

The grading criteria for G (Pass) and VG (Pass with distinction) are specified in the study guide.

## Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

## Course offered by

Department of Health, Education and Technology

## Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0003	Seminars	U G#	1.5	Mandatory	A21	
0004	Examination statistics	U G VG	3	Mandatory	A21	
0005	Individual written assignment	U G VG	3	Mandatory	A21	

## Syllabus established

by Prefekt vid Institutionen för hälsa, lärande och teknik 2021-02-11