

SYLLABUS

Physiotherapy: Scientific methodology, scientific and professional development 7.5 credits S0094H

Fysioterapi: Vetenskaplig metod, ämnes- och professionsutveckling

Course syllabus admitted: Autumn 2023 Sp 1 - Present

**DECISION DATE
2021-02-11**

Physiotherapy: Scientific methodology, scientific and professional development 7.5 credits S0094H

Fysioterapi: Vetenskaplig metod, ämnes- och professionsutveckling

First cycle, S0094H

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

Main field of study

Physiotherapy

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and General entry requirements as well as knowledge of basic concepts in physiotherapy and in scientific theory and methodology, and in physiotherapeutic assessment, intervention and interaction (S0083H, S0084H, S0085H, S0080H, S0081H, S0082H, S0089H or the equivalent) or physiotherapy degree.

Selection

The selection is based on 1-165 credits.

Course Aim

On completion of the course, the student should, from a scientific perspective given current laws and regulations, and with a research-ethics perspective, be able to:

1. Explain and compare different theoretical perspectives on the basis of physiotherapeutic research.
2. Explain and describe basic research ethics concepts and research ethics legislation
3. Describe and compare research and development work in physiotherapy.
4. Explain and relate to methods for collecting and analyzing quantitative and qualitative data and apply content analysis and descriptive statistical analysis.
5. Propose and present in writing a question relevant to the subject of physiotherapy and choose a relevant scientific approach and data collection method

Contents

The course contains studies of scientific work in physiotherapy with quantitative and qualitative approaches.

- scientific theoretical perspectives, research methodology and improvement and development in physiotherapy
- research ethics
- scientific evidence and its relation to the practice of physiotherapy
- methods for collection of quantitative data and descriptive quantitative analysis.
- methods for qualitative research interviews and analysis and application of content analysis
- methods for questionnaire studies and literature studies
- writing a project plan to investigate an issue or problem in physiotherapy

Realization

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

This course deepens previous knowledge of scientific approaches and methods for data collection, analysis and valuation relevant to physiotherapy. Research-ethics legislation and practice are highlighted, likewise a current description of physiotherapy as a research discipline and field for development and improvement work. The studies take place through the course literature, laboratory sessions and study assignments and lectures. In the statistics laboratory sessions, the computer program Excel ® is used. Facts, concepts and methods are presented through lectures and the reading list, and then discussed and applied in exercises and written assignments. Through production of a plan for the advanced assignment, the student practices formulating a problem in the subject physiotherapy, comparing and choosing different method approaches and applying a research-ethics argument. By evaluating and discussing knowledge, skills and judgement in seminars, the student practices self-assessment of the need for continued knowledge development. In all tuition forms, the student is stimulated and encouraged to carry out problem-solving and to have a critical reflective attitude.

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. Examination through assignments and seminars.

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.

Remarks

Study supervision is provided in the course room in Canvas.

Overlap

The course S0094H is equal to S0072H

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Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0006	Assignment and seminar	U G VG *	4.5	Mandatory	A21	
0007	Seminar - article review	U G#	3	Mandatory	A21	

Last revised

by 2021-02-11

Syllabus established

by Prefekt vid Inst för Hälsovetenskap 2014-06-29