#### **SYLLABUS**

# Physical Therapy: Specialization in Orthopedic Manual Therapy columna and extremity II 15 credits S7053H

Fysioterapi Ortopedisk manuell terapi, fördjupning columna och extremitet II

Course syllabus admitted: Spring 2023 Sp 3 - Present DECISION DATE 2022-06-16



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

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#### Fysioterapi Ortopedisk manuell terapi, fördjupning columna och extremitet II

**Subject** 

Fysioterapi

Second cycle, S7053H

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

#### **Entry requirements**

Studenten ska ha fördjupande metodkunskaper i såväl fysioterapeutisk undersökning som evidensbaserad behandling i ett biopsykosocialt perspektiv för personer med besvär från: Extremiteter (S7050H), länd- bröstrygg och SI-led (S7040H) samt cervikal och CTÖ (S7051H). Studenten ska ha fördjupande metodkunskaper inom såväl kvalitativ som kvantitativ vetenskapliga metodkunskaper i fysioterapi (S7042H), samt evidensbaserad metod (S7040H) och SSED (S7051H).

## Selection

The selection is based on 30-285 credits

# Examiner

Peter Michaelson

#### **Course Aim**

Upon completion of the course, students will be able to use their scientific knowledge with people with problems with their upper limbs and cervical spine region and implement the following:

1. Use clinical reasoning to conduct an adequately in-depth physiotherapeutic examination, establish a diagnosis and treatment with limited information and using a biopsychosocial approach.

- 2. Present and discuss the suitability of the examination and treatment from an evidence-based perspective.
- 3. Explain and apply pathophysiology, functional anatomy and pain physiology.
- 4. Explain musculoskeletal disorders from social, gender equality and gender perspectives

Upon completion of the course, students will be able to:

5. Present relevant knowledge in the subject areas closely related to their specialist area.

6. Share knowledge of physiotherapy by practically and theoretically implementing and converting their specialist knowledge to musculoskeletal health.

7. Write a minor healthcare plan for orthopaedic manual therapy.



## Contents

- Functional biomechanics, anatomy, pain physiology, pathophysiology and clinical reasoning
- Advanced physiotherapeutic examination, diagnosis and treatment within orthopaedic manual physical therapy.
- Social, gender equality and gender perspectives on musculoskeletal disorders.
- Clinical internship in a close-lying subject relevant to your field.
- Teaching the area of specialisation to the relevant groups.
- Statistical method meta-analysis and evidence
- Healthcare plan

## **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 taught through scheduled lessons in Luleå where theory and supervised method exercises are integrated. There will be distance-run lectures and seminars and attendance is compulsory. Additionally, the course will involve independent and group work with questions, literature, assignments and patient work. All components and teaching forms are meant to stimulate and encourage the student to solve problems and to adopt a critical reflective attitude. Internship within a field relevant to the course/programme. Laboratory exercises for meta-analyses and healthcare plans.

#### **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. Outcomes 1–3 are assessed through written and practical examinations, as well as clinical supervision of people with problems (exam 0001, 5 credits. U, G, VG and examination 0003 U, G). Outcomes 1–4 are assessed through a digital written take home examination (examination 0002, 5 credits. U, G, VG).

Outcome 5 is assessed with a report (examination 0003, 1 credit U, G).

Outcome 6 is assessed with a report (examination 0004, 1.5 credits. U, G).

Outcome 7 is examined through a report and seminar (examination 0005, 2.5 credits U, G).

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

#### **Overlap**

The course S7053H is equal to S7027H

#### Literature. Valid from Autumn 2022 Sp 1

\* Brukner, P, Clarsen B, Cook J, Cools A, Brukner & Khan's Clinical Sports Medicine: Injuries Volume 1 (senaste upplagan)

\* Carter, R Ed (senaste upplagan). Rehabilitation Research Principles And Applications. Elsevier Health Sciences

\* Kaltenborn, F (2011). Manual Mobilization of the Joints - The Spine (senaste upplagan). Norli förlag, Norge

\* Kaltenborn, F (2011). Manual Mobilization of the Joints - Volume III: Traction Manipulation of the extremities and Spine. Norli förlag, Norge

\* Kaltenborn, F (2011). Manual Mobilization of the Joints - The Extremities (senaste upplagan). Norli förlag, Norge

\* Neuman, D. Kinesiology of the musculoskeletal system (senaste upplagan). Elsevier.

\* Petty, N. (ed.) (senaste upplagan), Neuromusculoskeletal Examination and Assessment 4'ed. Churchill-Livingstone Elsevier, London, Storbritannien.



#### **Document Education**

Syllabus Physical Therapy: Specialization in Orthopedic Manual Therapy columna and extremity II 15 cr

\* Sahrmann S. (2011) Movement system impairment syndromes of the extremities, cervical and thoracic spine. Elsevier, Missouri USA

- \* Sahrmann S. (2002) Diagnosis and treatment of movement impairement syndromes. Elsevier, Missouri USA.
- \* Kosek, E, Lampa J, Nisell R. (senaste upplagan) Smärta och inflammation. Studentlitteratur.
- \* Kendall, F (2010). Muscles: Testing and Function, with Posture and Pain. Lippincott Williams and Wilkins.

\* Jull G, Moore A, Falla D. (2015) Grieve's modern musculoskeletal physiotherapy. Churchill-Livingstone Elsevier, London, Storbritannien. ISBN: 9780702051524

#### Referenslitteratur

\* Kapandji, A. (senaste upplagan). Physiology of the joints, Volume II, Lower Limb. Churchill-Livingstone Elsevier, London, Storbritannien.

\* Kapandji, A. (senaste upplagan). Physiology of the joints, Volume I, Upper Limb. Churchill-Livingstone Elsevier, London, Storbritannien.

Kapandji, A. (senaste upplagan). Physiology of the joints, Volume III, Lower Limb. Churchill-Livingstone Elsevier, London, Storbritannien.

\* Literature has been used in earlier courses

Articles and other scientific literature will be added

#### **Course offered by**

Department of Health, Education and Technology

#### **Modules**

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Practical written examination	U G VG	5	Mandatory	A22	
0002	Digital written take-home examination	U G VG	5	Mandatory	A22	
0003	Report	U G#	1	Mandatory	A22	
0004	Report	U G#	1.5	Mandatory	A22	
0005	Report and seminar	U G#	2.5	Mandatory	A22	

#### Last revised

by Anna Öqvist, Director of Undergraduate Studies at the Department of Health, Education and Technology 2022-06-16

#### Syllabus established

by Anna Öqvist, Director of Undergraduate Studies at the Department of Health, Education and Technology 2022-02-14

