

SYLLABUS

Physical Therapy: Specialization in Orthopedic Manual Therapy columna and extremity I 15 credits S7052H

**Fysioterapi Ortopedisk manuell terapi, fördjupning columna och
extremitet I**

Course syllabus admitted: Autumn 2022 Sp 1 - Present

DECISION DATE

2022-02-14

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Fysioterapi Ortopedisk manuell terapi, fördjupning columna och extremitet I

Second cycle, S7052H

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG	Fysioterapi	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 have the necessary scientifically-based knowledge of people with problems with their sacroiliac joint, lumbar region, thoracic back pain and lower extremities to be able to:

1. Use clinical reasoning to conduct an advanced physiotherapeutic examination, establish a diagnosis and treatment with limited information and using a biopsychosocial approach.
2. Critically present and discuss the relevance 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. Theoretically present and apply advanced statistical methods.
7. Theoretically present and apply basic epidemiological terms.
8. Share knowledge of physiotherapy by taking their knowledge of scientific physiotherapy methods to implement them in theory and practice.

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.
- Advanced statistical methods
- Basic epidemiological methods
- Assistant supervisor for first-cycle degree project

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 work statistical method and report writing. Compulsory participation as an assistant supervisor for a first-cycle degree project in physiotherapy.

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 written examination (examination 0002, 5 credits. U, G, VG). Outcome 5 is assessed through a report (examination 0003, 1 credit U, G). Outcome 6 is assessed through a report and seminar (examination 0004, 1.5 credits U, G). Outcomes 4 and 7 are examined through a report and seminar (examination 0005, 1.5 credits. U, G). Outcome 8 is examined by the student acting as an assistant supervisor for a first-cycle degree project from the project's planning stage to its completion (examination 0006, 1 credit. U, G).

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

Overlap

The course S7052H is equal to S7026H

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.

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

* Sahrman S. (2002) Diagnosis and treatment of movement impairment 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	Written examination	U G VG	5	Mandatory	A22	
0003	Report	U G#	1	Mandatory	A22	
0004	Report	U G#	1.5	Mandatory	A22	
0005	Report	U G#	1.5	Mandatory	A22	
0006	aaaaa	U G#	1	Mandatory	A22	

Syllabus established

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