Rehabilitation and Physiotherapy of the Musculoskeletal System: Upper Limb (D000643)

Course Specifications
Valid as from the academic year 2018-2019

Course size
(nominal values; actual values may depend on programme)
Credits 7.0  Study time 189 h  Contact hrs 80.0 h

Course offerings and teaching methods in academic year 2018-2019
A (semester 2)  Dutch  lecture 50.0 h
practicum 30.0 h

Lecturers in academic year 2018-2019
Cools, Ann  GE24  lecturer-in-charge
Castelein, Birgit  GE24  co-lecturer
De Muynck, Martine  GE03  co-lecturer
Steyaert, Adelheid  GE03  co-lecturer
Van Hoof, Tom  GE05  co-lecturer
Victor, Jan  GE03  co-lecturer

Offered in the following programmes in 2018-2019
Bachelor of Science in Rehabilitation Sciences and Physiotherapy 7  A
Linking Course Master of Science in Rehabilitation Sciences and Physiotherapy 7  A

Teaching languages
Dutch

Keywords
upper extremity, orthopedics, surgery, biomechanics, imaging, topographical anatomy, rehabilitation

Position of the course
the purpose is to acquire insights, knowledge and competences in:
- musculoskeletal pathologies of the upper extremity
- orthopedic techniques regarding the musculoskeletal pathologies of the upper extremity
- normal and pathological biomechanics of the upper extremity
- normal and pathological imaging of the upper extremity
- upper extremity rehabilitation principles
- functional clinical assessment of the upper extremity
- interpretation of clinical examination results with respect to localisation, actuality, and causality and clinical reasoning regarding treatment strategy
- rehabilitation techniques
- evaluation and progression of rehabilitation protocols.

Contents
- Pathology of the upper extremity (UE)
- Surgery/traumatology of the UE
- biomechanics of the UE
- Topographic Anatomy of the UE
- Imaging of the UE
- Theory and practice of rehabilitation sciences and physiotherapy of the UE, including knowledge of the natural and deviant course of, and red flags, requiring referral to a specialist, associated with musculoskeletal disorders of the UE.

Initial competences
The student has successfully completed the following courses or has acquired the
intended competences: 'Physiotherapeutical Treatments: Upper and Lower Limb'

Final competences
1 being able to collect and interpret relevant patient information based on the anamnesis
2 being able to perform an adequate clinical examination
3 being able to interpret the patient information and clinical examination results of the upper extremity, based in ICF guidelines, and to diagnose the patient's problem.
4 being able to design a treatment strategy of the upper extremity based on the physiotherapeutical diagnosis, keeping ICF- guidelines and evidence based practice in mind
5 being able to perform an adequate physiotherapeutical intervention, to critically evaluate and remediate it.
6 being able to evaluate the treatment strategy based on scientific rationale
7 being able to recognize and apply clinical reasoning processes within the rehabilitation of the upper limb
8 communicate appropriately about non-complex musculoskeletal disorders of the UE with patients, and other health professionals
9 being able to recognize the natural and deviant course of musculoskeletal disorders of the UE, and being able to recognize red flags, requiring referral to a specialist

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract
This course unit cannot be taken via an exam contract

Teaching methods
Guided self-study, lecture, practicum

Learning materials and price
Syllabus, spread by ACCO, and book "Musculoskeletale aandoeningen: orthopedie en traumatologie, J. Victor, Acco" (Nederlands)
cost study material: approximately 25€

References
• the Athlete's shoulder. Andrews, Wilk & Reinold. churchill & Livingstone 2009
• shoulder rehabilitation - non-operative treatment. Ellenbecker T. Thieme

Course content-related study coaching
Interactive guidance through Minerva Platform Individual guidance after appointment

Evaluation methods
end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
Written examination with multiple choice questions, oral examination, skills test

Examination methods in case of periodic evaluation during the second examination period
Written examination with multiple choice questions, oral examination, skills test

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

(Approved)
Calculation of the examination mark

The final mark is the weighted average of the theoretical part (60%) and the practical part (40%). If the student has a score of < 9/20 for any of the two separate components, the student can no longer pass the course. When the final mark is a value of 10 or more on 20, the final score will be reduced to 9/20.