

Subject: Physiotherapy in orthopedics

I. General information

Organization unit	Faculty of Physiotherapy
Course name	Physiotherapy in orthopedics
Subject code	FV-86
Teaching language	english
Type of subject (obligatory/ facultative)	facultative
Level of studies	MA
Study year	IV
Semester	VII
ECTS points	2
Teacher/ e-mail	Bartosz Wysoczański MA/ reh.bart@gmail.com bartosz.wysoczanski@awf.edu.pl
Studies program in which the subject is realized	physiotherapy
Method of realization (stationary/ distance learning)	Stationary
Prerequisites	knowledge of: functional anatomy, kinesiotherapy, kinesiology, clinical biomechanics, pathomechanics, and the clinical basics of physiotherapy.

II. Detailed Information

Course aims and objectives

A1	To acquaint the student about pathological changes and their prevention occurring in the musculoskeletal system.
A2	Acquiring the skills of proper inference in the field of kinesiotherapy, physical therapy and psychotherapy.

Learning outcomes

Learning outcome	Subject's learning outcomes
Knowledge	
D.W1 ethology, pathomechanism, symptoms and course of musculoskeletal dysfunction in the area of: orthopaedics, traumatology and sports medicine, rheumatology, neurology and neurosurgery, as well as paediatrics and paediatric neurology, to the extent that allows rational use of physiotherapy;	<ol style="list-style-type: none">1. Describes and explains pathological changes in various diseases and structural disorders caused by illness, injury or other form of disability2. Identifies and recognizes pathologies within the musculoskeletal system.
D.W2 diagnosis principles and general principles and methods of the most important musculoskeletal dysfunctions treatment in the field of: orthopaedics, traumatology and sports medicine, rheumatology, neurology and neurosurgery as well as paediatrics and paediatric neurology, to the extent enabling the use of physiotherapy	<ol style="list-style-type: none">1. Knows the principles and method of conducting subjective and objective examination.
Skills	
D.U1 perform the detailed examination for physiotherapy needs and functional tests of the musculoskeletal system, record and interpret these results	<ol style="list-style-type: none">1. Student is able to make a functional diagnosis of orthopedic dysfunctions within the musculoskeletal system resulting from overload, degenerative and traumatic changes.2. Performs tests and evaluates the functional deficit of patients in the perioperative period.
D.U2 perform the biomechanical analysis of simple and complex human movements in normal conditions and in dysfunctions of the musculoskeletal system	<ol style="list-style-type: none">1. Performs tests and evaluates the functional deficit of patients in the perioperative period.
D.U3 assess the state of the human musculoskeletal system in statics and dynamics (general, segmental, local examination), carry out the gait analysis and interpret the results obtained	<ol style="list-style-type: none">1. Student is able to make a functional diagnosis of orthopedic dysfunctions within the musculoskeletal system resulting from overload, degenerative and traumatic changes.

Social Competences	
O.K4 compliance with patients' rights and professional ethics	1. Student is able to see the need to secure intimate conditions during patient examination.
O.K6 use objective sources of information	1. Understands the need to cooperate with specialists with different competences in order to diagnose the patient.

Syllabus contents

No	Title
Classes/ Practical classes	
1	Upper extremity – clinical cases
2	Biomechanical and functional connections between upper extremity, shoulder girdle and the rest of the torso – clinical cases
3	Lower extremity – clinical cases

Assessment criterion

Local grade	Grade	Criteria
5	A	Correctly conducted clinical tests and inference Proposing plan for rehabilitation or prevention of an injury. Student will teach the patient how to properly carry out the kinesiotherapy exercises, and explain him their purpose. Develop and assign a homework for the patient.
4,5	B	Correctly conducted clinical tests and inference. Proposing plan for rehabilitation or prevention of an injury. Student will teach the patient how to properly carry out the kinesiotherapy exercises, and explain him their purpose.
4	C	Correctly conducted clinical tests and inference. Student will teach the patient how to properly carry out the kinesiotherapy exercises, and explain him their purpose.
3,5	D	Correctly conducted clinical tests and inference. A student will properly carry out the kinesiotherapy exercises, and explain their purpose.
3	E	Correctly conducted clinical tests and inference.
2	F	A student cannot conduct a clinical tests.

1 ECTS point = 30 hours students work (contact + self study)

TYPES OF CLASSES	HOURS
Contact hours	22,5
Self study	37.5
Total = 60 hours = 2 ECTS	