Course Unit	Pathophysiology of Musculoskeletal Conditions			Field of study	Health Sciences				
Bachelor in	Physiotherapy			School	School of Health				
Academic Year	2023/2024	Year of study	2	Level	1-2	ECTS credits	4.0		
Type	Semestral	Semester	1	Code	9504-770-2104-00-23				

Workload (hours)	108	Contact hours	T	TP	PL	TC	S	E	OT	O
			30	-	-	-	-	-	20	-

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s): Ana Luísa Pires Ribeiro

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Understand and characterize the pathophysiology of musculoskeletal, rheumatic, peripheral nervous system and burn conditions
2. Acknowledge the epidemiology and medical intervention in musculoskeletal conditions
3. Understand the repair process in musculoskeletal pathology
4. Understand the pathophysiology of chronic pain
5. Understand the relevance and implications of pathophysiology for assessment and intervention in Physiotherapy

Prerequisites

Before the course unit the learner is expected to be able to:
Prior musculoskeletal Anatomy, Histology and Physiology knowledge

Course contents

Core knowledge of pathophysiology and treatment of the most common musculoskeletal conditions

Course contents (extended version)

1. Introduction to the pathophysiology of musculoskeletal conditions
2. Cellular injury, inflammation, immunology and repair
3. Non-traumatic regional pathophysiology of the spine and limbs
4. Traumatic osteoarticular injuries
5. Peripheral neurological pathology
6. Non-musculoskeletal pathology that mimics signs and symptoms of musculoskeletal pathology
7. Burn injuries
8. Rheumatology
9. Pathophysiology of chronic pain

Recommended reading

1. Magee, D., et al. (2016). Pathology and Intervention in Musculoskeletal Rehabilitation. (2nd ed.), Saunders
2. Hutson, M., Ward, M. (2015). Oxford Textbook of Musculoskeletal Medicine (2 ed.). Oxford University Press
3. Cardoso, A., et al. (2005) Regras de Ouro em Reumatologia, DIREÇÃO GERAL DE SAÚDE
4. Boron, W.F., Boupaep, E.L. (2016) Medical Physiology, (3rd ed.), Editora Elsevier
5. Pinto, A. M., et. al (2013) Fisiopatologia - Fundamentos e Aplicações (2 ed.), LIDEL

Teaching and learning methods

Theoretical Learning: Expositive method.

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
   - Intermediate Written Test - 50% (Class time. Minimum score 8,5 out of 20)
   - Intermediate Written Test - 50% (Class time. Minimum score 8,5 out of 20)
2. Final exam - (Regular, Student Worker) (Supplementary)
   - Final Written Exam - 100% (Non-approved students or wishing to improve previous grade. Minimum score 9.5 out of 20 values)
3. Final exam - special - (Regular, Student Worker) (Special)
   - Final Written Exam - 100% (Special scheme students. Minimum score 9.5 out of 20)

Language of instruction

Portuguese

Electronic validation

Ana Luísa Pires Ribeiro	Andre Filipe Morais Pinto Novo	Ana Maria Nunes Português Galvão	Adília Maria Pires da Silva Fernandes
12-11-2023	14-11-2023	14-11-2023	14-11-2023