UCLouvain

lfsm1003

2024

Anatomy of the locomotor system and movement analysis

6.00 credits	52.5 h	Q2

Teacher(s)	Behets Wydemans Catherine (coordinator) ;Dewolf Arthur ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	• Osteology, arthrology, myology, peripheral nervous system, vascular system (major arteriovenous and lymphatic axes) • Topographic approach: joints of the head, neck, trunk and limbs, the muscles that mobilize them, their innervation and vascularization.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 • Name and describe the structures of the musculoskeletal system (2.1, 5.3, 11.1 Kiné – 9.1 EP) • Identify the function of the muscles and the joint ranges associated with them (2.1, 5.1, 11.1 Physiotherapy – 9.1) • Describe the axes of rotation of the joints and the resulting movement mechanisms (2.1, 5.1, 11.1 Physio – 9.1 EP) • Use the description of the structures of the locomotor system to explain the movement (5.1, 11.1, 11.2 Kiné – 9.1 and 9.2 EP) • Distinguish structures to explain movement (5.1, 11.1, 11.2 Kiné – 9.1 and 9.2 EP) • Apply movement analysis concepts to assess alterations in musculoskeletal function and mechanical disorders. (5.1, 5.3, 11.1, 11.2 Physio – 9.1 and 9.2 EP) • Use the concepts seen during the course to solve concrete cases (5.3 Physio - 9.3 EP)
Evaluation methods	Written exam by MCQ. Some questions concern structures or organs illustrated in the questionnaire. The assessment is carried out using a multiple choice exam, containing questions with 5 propositions with, for each of these questions, a single correct answer. The correction of the exam is arithmetic and does not include a negative point in the event of an incorrect answer. For the calculation of the final mark, arithmetic rounding to the nearest unit is systematic, except for marks lower than 10/20 for which rounding is done towards the lower unit.
Teaching methods	Masterclass illustrated with numerous anatomy plates. Practical osteology exercises: manipulation of human bones.
Content	Content and teaching method - Anatomy of the locomotor system (bones, joints, muscles, peripheral nerves). - Movement analysis of each joint. - Analysis of postures and dynamic gesture. - Practical work : analysis of bones.
Inline resources	Moodle Gilroy Anatomy Atlas - http://www.thiemeteachingassistant.com/Home
Bibliography	Atlas Gilroy (également en ligne)
Other infos	Prerequisite : Essentials of systematic and functional anatomy (IEPR1002) and Mechanics and biomechanics (IEPR1005). Evaluation : MCQ Support : notes, atlas, anatomical pieces, websites.
Faculty or entity in charge	FSM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Motor skills : General	EDPH1BA	7		
Bachelor in Physiotherapy and Rehabilitation	KINE1BA	6		