


3.00 credits

30.0 h

Q2


**This learning unit is not being organized during this academic year.**

|                             |  |
|-----------------------------|--|
| Teacher(s)                  | Detrembleur Christine (coordinator) ;  |
| Language :                  | French   |
| Place of the course         | Louvain-la-Neuve   |
| Main themes                 | The main themes to achieve these objectives are : - principles of active physiotherapy (muscular strengthening), - anthropometry, - analysis of normal walking.  |
| Learning outcomes           | <p><b>At the end of this learning unit, the student is able to :</b></p> <p>1 At the end of this course, the future bachelor in physiotherapy will be able to establish the links between mechanics, anatomy and their applications in the domain of the physiotherapy of the locomotory system.</p>   |
| Evaluation methods          | <p>The written exam includes questions that cover the entire course.</p> <p>The evaluation is done by means of a QCM exam (moodle test), containing 40 questions. The exam is said to be "homogeneous" (5 answer proposals for each question, 1 correct answer expected per question, identical weighting for all questions). There is no penalty for no answer or incorrect answer.</p> <p>The minimum mastery threshold (c) of the learning outcomes (corresponding to a mark of 10/20) is set by the following formula : <math>c = ((n+1)/2n) \times 100</math>, where n represents the number of propositions per question. In this case, the "minimum pass mark" (c) is set at 60%. In other words, 60% of the questions must be answered correctly to obtain 10/20.</p> <p>The exam requires a tablet or laptop. Students who do not have a computer are asked to come forward at the beginning of the course to find a solution.</p> <p>The exam takes place in an auditorium, and students are required to sign in on an attendance sheet. Failure to sign in or to attend will be considered as cheating.</p> |
| Teaching methods            | <ul style="list-style-type: none"> <li>• The course is a lecture in audience.</li> </ul>   |
| Content                     | <p>The course will study normal and pathological human walking from a biomechanical perspective. It includes the following chapters:</p> <ul style="list-style-type: none"> <li>• THE DIVISION OF THE STEP</li> <li>• KINEMATICS OF WALKING</li> <li>• MUSCLE FUNCTION DURING WALKING</li> <li>• KINETICS OF WALKING</li> <li>• MUSCULAR WORK DURING WALKING</li> <li>• ENERGY EXPENDITURE DURING WALKING</li> <li>• PATHOLOGICAL WALKING OF THE CHILD WITH CEREBRAL PALSY</li> <li>• PATHOLOGICAL WALKING OF THE ADULT WITH STROKE</li> <li>• PATHOLOGICAL WALKING OF THE AMPUTEE</li> </ul>  |
| Other infos                 | Pre-requisite anatomy, mechanics and biomechanics Evaluation oral or written exam Support Books and syllabus Supervision the teacher Others  |
| Faculty or entity in charge | FSM  |

| <b>Programmes containing this learning unit (UE)</b> |         |         |              |   |
|--|---------|---------|--------------|---|
| Program title  | Acronym | Credits | Prerequisite | Learning outcomes   |
| Bachelor in Physiotherapy and Rehabilitation         | KINE1BA | 3       |              |  |