


4.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Dewolf Arthur ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	<p>The written exam consists of questions on theory and exercises.</p> <p>The evaluation is carried out by means of a MCQ examination. The examination is "homogeneous" (5 answer proposals for each question, 1 correct answer expected per question, same weighting for all questions). No points are awarded for no answer or incorrect answers.</p> <p>The minimum threshold (c) of the learning outcomes (corresponding to a mark of 10/20) is set by the following formula: $c = ((n+1)/2n) \times 100$, 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>
Teaching methods	<p>The course aims to give students mathematical tools for modelling and understanding the movement of the human body.</p> <p>Theory (lecture) + practical sessions</p>
Content	<p>The course content will be divided into three parts:</p> <ul style="list-style-type: none"> - Anthropometry: concepts of the rigid body, the centre of gravity and moment of inertia - Kinetic analysis: calculation of forces and moments of force in a static situation - Dynamic situations and concepts of energy, work and power <p>The student will have to use the basics of biomechanics in an integrated way in the fields of motor science: analysis of joint movements; segmental modelling of the body; inertia; balance and posture; muscular leverage; energy transformation during a movement</p>
Inline resources	Moodle
Other infos	This course is strictly reserved for FSM students and is not open to other UCLouvain students.
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	4		
Bachelor in Physiotherapy and Rehabilitation	KINE1BA	4		