

2.0 credits

15.0 h

Teacher(s) :	Stoquart Gaëtan ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	No prerequisite is needed
Main themes :	<p>The first part of the course introduces the student to the theoretical concepts of gait analysis: kinematics (the study of limb movements), kinetics (the study of muscular moment and power during the gait cycle), dynamic electromyography (muscle activation), mechanical work and energetic cost.</p> <p>In the second part, those theoretical concepts will be applied to pathology, with examples of patients suffering from central nervous system lesions (hemiparetic adults, cerebral palsy children, & ellip;). The impact of different treatments on gait variables will also be discussed.</p> <p>Finally, a visit of the gait laboratory will illustrate those different topics.</p>
Aims :	<p>In depth study of normal and pathological gait, including the investigation methods. At the end of the formation, the student has to be able to interpret a gait analysis report.</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Teaching methods :	Lecture and case discussion
Content :	<p>The first part of the course introduces the student to the theoretical concepts of gait analysis: kinematics (the study of limb movements), kinetics (the study of muscular moment and power during the gait cycle), dynamic electromyography (muscle activation), mechanical work and energetic cost.</p> <p>In the second part, those theoretical concepts will be applied to pathology, with examples of patients suffering from central nervous system lesions (hemiparetic adults, cerebral palsy children,). The impact of different treatments on gait variables will also be discussed.</p> <p>Finally, a visit of the gait laboratory will illustrate those different topics.</p>
Bibliography :	A& bsp;syllabus will be available
Other infos :	Planning and contact: corinne.bleyenheuft@uclouvain.be
Cycle and year of study :	> Advanced Master in Physical and Rehabilitation Medicine > Master [240] in Medecine
Faculty or entity in charge:	MED