UCLouvain

wfarm2514

2026

Drug dependence and addiction

3.00 credits	22.5 h	Q2

Teacher(s)	Bindels Laure ;Boland Lidvine ;de Timary Philippe ;Gohy Sophie ;Haufroid Vincent ;Hermans Emmanuel (coordinator) ;Jacques Denis ;Lambert Didier ;Starkel Peter ;Vikkula Miikka ;Wittebole Xavier ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	Understanding the concepts developed in this course requires basic training in health sciences. This graduate course is therefore only accessible to students with a bachelor's degree in pharmaceutical, biomedical, medical or dental sciences, or who finalize such a bachelor's degree.
Main themes	The following themes will be explored: chemistry, pharmacodynamics (molecular targets), pharmacokinetics, psychiatric effects, pharmacokinetics, psychiatric and psychosocial effects, involvement in the treatment of addiction, epidemiology, history, psychological management of addictions, toxicity for the organism (in particular nervous, hepatic, pulmonary and renal toxicities), genetic predisposition to addiction, analytical approaches, drug and metabolite detection, assays in biological fluids, legal and societal aspects.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 To give students the opportunity to deepen their knowledge of the medical and social problems associated with the use and abuse of licit or illicit substances. Both the psychological and psychiatric aspects of addictions as well as the toxicological aspects will be explored. At the end of this course, the student will be able to understand the pharmacological, neurobiological and psychiatric mechanisms of the addictions. He will also have gained an overall view of the toxicological aspects related to the acute or chronic use of the most commonly drugs encountered. 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' .
Evaluation methods	In order to integrate all the teachers in the evaluation, it could be organized in the form of a written exam in the form of multiple-choice questions from most teachers. The number of questions related to each part of the course takes into account the importance of these parts (timetable importance, but also importance of the topics covered in the pharmaceutical context). The written questionnaire can also be enriched with a few open questions to which the student is invited to answer with a short development.
Teaching methods	The teaching is based on lectures (total of 30 hours). It is based on the development of theoretical concepts, but also on the description of concrete examples. The course involves several active teachers and experts in their field. They will share their experience and possibly propose a meeting with external speakers or will consider visits to specific analysis laboratories.
Bibliography	l'essentiel des documents présentés aux cours sont accessibles sur Internet via la plateforme Moodle accessible aux membres de la communauté universitaire.
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Biomedicine	SBIM2M	3		
Master [60] in Biomedicine	SBIM2M1	3		
Master [120] in Pharmacy	FARM2M	3		