■ UCLouvain wfarm2117

2023

Analyse et contrôle de qualité des médicaments

3.00 credits

30.0 h

Q1

Teacher(s)	Leclercq Joëlle (coordinator) ;Muccioli Giulio ;				
Language :	French > English-friendly				
Place of the course	Bruxelles Woluwe				
Main themes	The main methods and norms used for purity and quality control of drugs (qualitative and quantitative analysis impurities, assays,') will be explained				
Learning outcomes	 At the end of this learning unit, the student is able to : Give to the student the appropriate knowledge: 1 to use efficiently reference documents (e.g. pharmacopoeias) for quality control of a medicine or its constituents, including understand the methods described in such documents 2. to allow the student to choose the most adequate analytical method to solve a given problem in drug analysis (mixture of active molecules, related substances,') 				
Evaluation methods	Evaluation by a written exam (unless exception) and exercises				
Teaching methods	Teaching method: in part, theoretical teaching except exceptional sanitary measures, as well as group work students and reverse classes.				
Content	 Drugs quality control Pharmacopoeia : general aspects Purity of drugs and main degradation pathways Identification methods (infra red spectroscopy, nuclear magnetic resonance) General identification reactions Separation methods (liquid-liquid and solid-liquid extractions, liquid, supercritical and gaz chromatographies, electrophoresis). Quantification methods and validation of analytical methods Introduction to mass spectrometry (MS), coupling of MS with separation methods Tests General monographs Discussion of monographs Examples of the main routes of chemical and physical degradation of a drug Control of commercialised medicines 				
Inline resources	used supports are descibed on Moodle				
	The basic principles of analytical methods are not addressed in this EU. These concepts are widely discussed in				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Master [120] in Pharmacy	FARM2M	3		٩		