wfarm2117
2019

UCLouvain

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

3 credits	30.0 h	Q1

Teacher(s)	Leclercq Joëlle (coordinator) ;Muccioli Giulio ;
Language :	French
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 of impurities, assays,') will be explained
Aims	1 - 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,') - - - - *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	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Evaluation by a written exam and exercises
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Teaching method: theoretical teaching
Content	1. Drugs quality control Pharmacopoeia : general aspects 2. Purity of drugs and main degradation pathways 3. Identification methods (infra red spectroscopy, nuclear magnetic resonance) 4. General identification reactions 5. Separation methods (liquid-liquid and solid-liquid extractions, liquid, supercritical and gaz chromatographies, electrophoresis). 6. Quantification methods and validation of analytical methods 7. Introduction to mass spectrometry (MS), coupling of MS with separation methods 8. Tests 9. General monographs 10. Discussion of monographs 11. Examples of the main routes of chemical and physical degradation of a drug
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Pharmacy	FARM2M	3		🔍