UCLouvain

## wfarm1312

2019

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.

Teacher(s)	Herent Marie-France ;Muccioli Giulio (coordinator) ;				
Language :	French				
Place of the course	Bruxelles Woluwe				
Prerequisites	general chemistry; organic chemistry; introduction to the analytical chemistry  The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.				
Main themes	The teacher(s) will discuss the different kinds of spectroscopic techniques (UV, molecular fluorescence, atomic spectroscopy'); and will then focus on the separation techniques such as HPLC and GC. They will also discuss the detectors that are used to detect the analytes following their separation (UV, FID, MS').				
Aims	At the end of the activity the student will be able to				
	<ul> <li>Differentiate the different spectroscopic techniques (type of interaction with the light, nature of the measured signal, ')</li> <li>Describe the different separation techniques that have been discussed</li> <li>Explain the consequences of a change in the experimental conditions of a separation on the result of the separation.</li> <li>Propose, based on the elements discussed during the course, the optimal method allowing the quantification of a given analyte.</li> </ul>				
	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. a written exam spanning from theoretical aspects to exercise resolution				
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change.  WFARM1312 teaching activities.				
	The activity WFARM1313 (practical training in instrumental analysis) allows to approach the theoretical notions studied in WFARM1312 in a more practical way.				
Content	This EU addresses the main instrumental techniques useful for the chemical analysis. The EU WFARM1243 is located in a learning continuum starting with the basics of analysis (WFARM1243) to the analysis of drugs (WFARM2117). The topics covered in this EU are listed below.				
	• Spectroscopic techniques     • UV-Visible     • Molecular fluorescence     • Atomic spectroscopy     • Introduction to the analytical separations     • Electrophoretic methods     • Liquid chromatograpy     • Gaz chromatography     • Introduction to the mass spectrometry				
Inline resources	An adapted version of the material presented during the lessons is available on the "moodle" platform.  The materials for the practical part of the activity is also available on the "moodle" platform.				
Faculty or entity in charge	FARM				

## Université catholique de Louvain - - en-cours-2019-wfarm1312

Programmes containing this learning unit (UE)					
Program title	Acronym	Credits	Prerequisite	Aims	
Bachelor in Pharmacy	FARM1BA	3	WFARM1243 AND WFARM1244 AND WFARM1231 AND WFARM1219	0	