UCLouvain

wfarm1312t

2021

Instrumental analysis applied to pharmaceutical sciences - Instrumental analysis applied to pharmaceutical sciences (chromatographic technique and 10h of practical work)

4.00 credits	30.0 h + 10.0 h	Q1

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
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').
Learning outcomes	
Evaluation methods	The evaluation is based on a written exam (session I) (17 points out of 20) as well as on the (continuous) evaluation of the practical work (3 points out of 20). The participation to the practical works is compulsory and indispensable to validate the teaching unit.
Teaching methods	The teaching is based on the explanation by the teachers of the key concepts complemented by examples and problem solving in the lecture hall. Practical work sessions (part of the WFARM1313 course) allow to approach from a practical point of view the notions approached in the WFARM1312T course.
Content	This course covers the main instrumental techniques for analyte separation. WFARM1312T is part of a continuum of learning from the basics of analysis (e.g. WFARM1243) to drug analysis (e.g. WFARM2117). The topics covered in this course are listed below. • Introduction to analytical fractionation • Liquid chromatography • Gas chromatography • Electrophoretic methods
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.
Other infos	Participation in the practical work, tutorials and exercise sessions is compulsory and indispensable to validate the teaching unit. Any unjustified absence will result in a penalty in the examination of the UE which can go as far as the cancellation of the examination grade for the year of study considered (0/20). In case of repeated absences, even if justified, the teacher can propose to the jury to oppose the registration to the examination related to the UE in accordance with article 72 of the RGEE Translated with www.DeepL.com/Translator (free version)
Faculty or entity in charge	FARM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Biomedicine	SBIM2M	4		🔍