UCL Université catholique de Louvain

WFARM1244

2012-2013

Travaux pratiques d'introduction à la chimie analytique

3.0 credits	0 h + 105.0 h

Teacher(s) :	Herent Marie-France ; Muccioli Giulio (coordinator) ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	general chemistry ; organic chemistry ; introduction to analytical chemistry
Main themes :	The teacher(s), helped by graduate students and technicians, will discuss the different types of particle exchange in a solution. The aim is first to give the practical basis that will help to understand the theoretical notions studied during WFARM1243 ; second to form the students to the analytical reasoning.
Aims :	At the end of the activity the student will be able to -- Behave in an analytical lab environment -- To understand notions such as 'trueness, accuracy, experimental error' -- To understand and use an experimental protocol -- To discuss the results he has obtained during the experiment *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 :	continuous evaluation based on the post-experiment reports, on the evaluation of the student preparation to the day's experiment, and a final exam.
Teaching methods :	the activity takes place in didactic labs the actual experiments are preceded by theoretical exercises (that need to be prepared by the student)
Content :	-- General aspects of an analytical lab ('good laboratory practices') -- Gravimetry and precipitometry -- Quantification of sulfates and chlorides by several techniques, and quantification of iodide based on the European pharmacopoeia -- Acidimetry -- Titrations in aqueous media -- Titrations in non aqueous media -- Complexometry -- Measure of the drinking water hardness -- Screening for toxics (Bi ' Pb) -- Oxydimetry -- Quantification of several ions (iron, iodides, calcium) and of pharmaceutical substances (chloramine T, sulfanilamide)
Cycle and year of study :	> Bachelor in Pharmacy
Faculty or entity in charge:	FARM