

3.00 credits

0 h + 105.0 h

Q1


This learning unit is not open to incoming exchange students!

Teacher(s)	Herent Marie-France ;Muccioli Giulio (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	<i>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.</i>
Main themes	The teacher(s), helped by graduate students and technicians, will discuss the different types of instrumental analysis techniques. The goal is first to give the practical basis to understand the theoretical notions studied during Wfarm1312 ; second to explain how to use an analytical instrument in order to obtain relevant results.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>At the end of the activity the student will be able to</p> <p>1</p> <ul style="list-style-type: none"> • Understand the functioning and use measuring electrodes, including pHmeters • Use, based on written procedures, the different analytical instruments used in the lab • Build and use a calibration curve for different analytical techniques • Interpret the data obtained by instrumental analysis
Evaluation methods	<p>continuous evaluation based on the post-experiment report, on the evaluation of the student preparation and on the general behavior during the activity.</p> <p>the grade obtained at the end of the activity (i.e. first session) is final. It is not possible to reevaluate the student during the 3rd session of exams (august/september)</p>
Teaching methods	the activity takes place in didactic labs.
Content	<ul style="list-style-type: none"> • General aspects of the instrumental analysis • Conductometry • Ion-selective potentiometry <ul style="list-style-type: none"> • Acid-base titrations ' redox titrations • Spectrophotometry <ul style="list-style-type: none"> • pKa measuring ' spectrophotometric quantification of iron • Atomic spectroscopy <ul style="list-style-type: none"> • Sodium and potassium quantification • Zone electrophoresis • Gaz chromatography <ul style="list-style-type: none"> • Methyl salicylate quantification ' fatty acid quantification • High performance liquid chromatography <ul style="list-style-type: none"> • Caffeine quantification ' dye quantification
Inline resources	The materials for the practical part of the activity is also available on the "moodle" platform.
Faculty or entity in charge	FARM

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