UCLouvain

lchm1381

2020

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	22.5 h + 16.0 h	Q1

Teacher(s)	Leyssens Tom ;Uyttendaele Nathan (compensates Leyssens Tom) ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	The course must propose the theoretical bases of measure by defining the concepts of samples, population and distribution of measures as well as their main properties. Introduction of hypothesis tests must lead to a critical analysis of data, estimation of errors and to determination of factors affecting measure. The notions of correlation, regression as well as the development of models will be introduced and applied to concrete cases found in current practice in laboratories. Elementary introduction to experimental design will be seen to optimized the experimental processes. Techniques to search for the optimal conditions and localization of extrema will be presented.
Aims	1 - Bring the chemistry students to treat data linked to experimental data they acquired - Learn to ally the quality of results with economy of acquisition - Conceive and planify experiments - Acquire and treat results of experiments - Interpret results and develop models allowing to predict studied properties - - - - *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".*
Faculty or entity in charge	SC

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Additionnal module in Chemistry	APPCHIM	3		