


6.00 credits

45.0 h + 10.0 h

Q1

Teacher(s)	Leysens Tom ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
Main themes	A detailed study of the properties of matter and molecules is presented and completed by a discussion of chemical reactivity models. Teachers will place emphasis on microscopic versus macroscopic properties connecting both approaches through a statistical point of view.
Learning outcomes	At the end of this learning unit, the student is able to : The course aims to guide students in completing their knowledge in physical chemistry and to apply it to concrete cases. 1 A systematic presentation completes the education of chemical thermodynamics and kinetics acquired during the bachelor's degree.
Evaluation methods	A written exam takes place in January. During the exam, the student is able to reproduce the theory that is considered during the course, as well as to apply the course material to solve practical problems. The exam will cover all the chapters that are treated in the course. A similar type of evaluation is organized in september
Teaching methods	This course is a 5 Credit course and is podcast based. Classes take place in person, or through pre-registered courses. For these latter students are required to visualize and work the material themselves. Question-Discussion sessions are organized on a regular basis to discuss.
Content	The class focuses on crystal engineering, crystal growth and crystallization, more specifically looking at the concepts of polymorphism, chiral resolution and salt/co-crystallization using physico-chemical principles applied to crystallization.
Inline resources	slides available on moodle
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Chemistry	CHIM2M	6		
Master [60] in Chemistry	CHIM2M1	6		