



Field: Matter sciences

Branch : Chemistry

Scholarships :

- France
- Spain
- Hungary
- China

- Hiring :
- Teaching
- Environment
- Research and development
- Post-graduate training

Degree :
'Academic'
Master

Specialty: Physical Chemistry



Program of studies

SEMESTER 1	Credits	SEMESTER 2	Credits
Teaching Units (TU)		Teaching Units	
Fundamental TU		Fundamental TU	
FTU1 Colloids and interfaces Analysis in solution		FTU1 Macromolecular Chemistry Advanced Organic Chemistry	
FTU2 Advanced Chemical Kinetics Qualitative and quantitative analysis techniques		FTU2 Electrochemical Methods Spectrometric analysis techniques	
Methodology TU		TU Méthodologie	
MTU 1 PW Analysis in solution PW Advanced kinetics		MTU 1 PW Electrochemical methods PW spectrometric analysis	
MTU 2 PW quantitative and qualitative Analysis techniques		MTU 2 Numerical analysis	
Discovery TU		Discovery UT	
Theoretical chemistry		Scientific English	
Transversal TU		Transversal TU	
Chemical risk		Heterocyclic chemistry	
SEMESTER 3	Credits	SEMESTER 4	Credits
Teaching Units (TU)			
fundamental TU			
FTU1 Chromatography and separation techniques Structural analysis techniques		Internship in a company or in a pedagogic/research laboratory and defense of the final thesis	
FTU2 Physical chemistry of solutions			
Methodology TU			
Chemometrics Cheminformatics			
discovery TU			
Management of a research project			

Targeted fields of activity

Following a Master's degree, students will find employment in various fields:

- ✚ Environment, catalysis, research and development in research laboratories, etc.
- ✚ Teaching
- ✚ Post-graduate (doctoral) studies



Goals of Education

Physical Chemistry Master is an academic graduation training whose teachings are managed by the Department of Matter Sciences of the Faculty of Mathematics, Computer and Matter Sciences of the University of Guelma 8 Mai 45.

The Master of Physical Chemistry aims to create an interdisciplinary training combining physical chemistry and analytical chemistry, its purpose is to give students the theoretical basis necessary to understand the phenomena that govern the physical chemistry

- ✓ The structure;
- ✓ Transformation;
- ✓ analyses of matter;

It enables students to integrate the workforce, to acquire the scientific skills necessary and sufficient to allow for greater mobility and to access doctoral studies.