جامعة 8 ماي 1945 قالمة
UNIVERSITE 8 MAI 1945 - GUELMA

Field : Matter Sciences

Branch : Chemistry

Speciality : Physical Chemistry

Scholarships :

- France
- Spain
- Hungary

China

Hiring :

- Teaching
- Environment
- Research and development
- Post-graduate studies

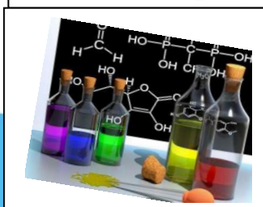
Degree:

'Academic'

Licence





Program of the studies

Semester 1	Credits	Semester 2	Credits
Fundamental Teaching units(T U) : 18 credits ▪ Mathematics 1 : Analysis and algebra 1 ▪ Physics 1 : point Mechanics ▪ Chemistry 1 : Structure of matter	6 6 6	**Fundamental TU : 18 credits** ▪ Mathematics 2 : Analysis and algebra 2 ▪ Physics 2 : Electricity and magnetism ▪ Chemistry 2 : Thermodynamics and chemical kinetics	6 6 6
Methodology TU: 7 credits ▪ PW Physics 1 ▪ PW Chemistry 1 ▪ ffice automation and web technology	2 2 3	**Methodology TU: 9 credits** ▪ PW Physics 2 ▪ PW Chemistry 2 ▪ Computer science	2 2 5
Discovery TU: 4 credits **Biology** **Earth Sciences**	2 2	**Transversal TU: 3 credits** ▪ Language 2 : French ▪ History of sciences	1 2
Transversal TU: 1 credit **Language 1: Fench**	1		
Semester 3	**Credits**	**Semester 4**	**Credits**
Fundamental TU: 20 credits • Inorganic Chemistry • Organic Chemistry 1 • Applied Mathematics • Vibrations, Waves and Optics	6 6 4 4	**Fundamental TU: 20 credits** ▪ Organic nChemistry 2 ▪ Thermodynamics and Chemical Kinetics ▪ Analytical Chemistry ▪ Quantum Chemistry	6 6 4 4
. Methodology TU: 7 credits ▪ PW Mineral Chemistry ▪ PW Organic Chemistry 1 ▪ Numerical Methods and Programming	2 2 3	**Methodology TU: 7 credits** • PW Analytical Chemistry • PW Thermodynamics and Chemical Kinetics • Inorganic Chemistry	2 2 3
Discovery TU: 2 credits ▪ Physical and chemical analysis techniques 1	2	**Discoveriy : 2 credits** ▪ Physical and chemical analysis techniques 2	2
Transversal TU:1 credit ▪ English 3	1	**Transversal TU: 1 credit** ▪ **English 4**	1
Semester 5	**Credits**	**Semester 6**	**Credits**
Fundamental TU: 20 credits ▪ Organic chemistry 3 ▪ Analytical chemistry 2 ▪ Crystallography ▪ Quantum Chemistry 2	5 5 5 5	**. Fundamental TU: 20 credits** ▪ Thermodynamics of solutions ▪ Electrochemistry ▪ Molecular Spectroscopy ▪ Surface chemistry and catalysis	5 5 5 5
Methodology TU: 6 credits ▪ PW Organic Synthesis ▪ PW Modeling	3 3	**Methodology TU: 6 credits** ▪ PW Thermodynamics of solutions PW Surface chemistry and catalysis	3 3
Discovery TU: 2 credits ▪ **Bio-Organic chemistry**	2	**Discovery TU: 2 credits** ▪ **Macromolecular chemistry**	2
Transversal TU: 2 credits ▪ **Scientific English 1**	2	**Transversal TU: 2 credits** ▪ **Scientific English 2**	2

Targeted areas of activity

- Following a Licence degree, students will find opportunities in various fields (environment, catalysis, research and development in research laboratories, etc.).
- Teaching
- Post-graduate studies

Educational Goals

- Providing a general education allowing students to acquire the fundamental knowledge about scientific subjects.
- Preparing students for a variety of jobs, such as teaching or working in companies. The skills acquired will enable them to adapt easily to a variety of professional situations.
- At the end of the license, students will have the basic knowledge of chemistry necessary to pursue multi-disciplinary courses (environment, catalysis, etc.)