Program Name: fundamental chemistry

Program Description:

The training offered is an academic license which aims to give students a general scientific training and a more theoretical specialization while giving a global vision of other disciplines. The training offers the student the possibility of pursuing master's studies in a very broad spectrum of specialties in the same field of material sciences.

Semester 1		
Teaching unit		
fundamental teaching units	Mathematics 1	
	Physics 1	
	Chemistry 1	
Methodology TU	PW Mechanic 1	
	PW chemistry 1	
	Informatics 1	
transverse TU	english 1	
Discovery TU	Environment	
Semester 2		
Teaching unit		
fundamental teaching units	Mathematics 2	
	Physics	
	Chemistry 2	
Methodology TU	PW of Electricity	
	PW chemistry 1	
	Informatics 2	

transverse TU	english 2	
Discovery TU	Renewable Energies	
Semester 3		
Teaching unit		
fundamental teaching units	Mineral Chemistry	
	Organic Chemistry 1	
	Applied mathematics	
	Vibrations, Waves and Optics	
Methodology TU	PW Mineral Chemistry	
	PW Organic Chemistry 1	
	numerical methods and programming	
transverse TU	English 3	
Discovery TU	Physico-chemical analysis techniques I	
Semester 4		
Teaching unit		
fundamental teaching units	Organic Chemistry 2	
	Thermodynamics and chemical kinetic	
	Analytical Chemistry	
	Quantum chemistry	
	PW Analytical Chemistry	
Methodology TU	PW Thermodynamics and chemical kinetic	
	Inorganic chemistry	

transverse TU	English 4	
Discovery TU	Physico-chemical analysis techniques 2	
Semester 5		
Teaching unit		
fundamental teaching units	Organic chemistry III	
	Analytic chemistry II	
	Crystallography	
	Quantum chemistry II	
	PW Organic synthesis	
Methodology TU	PW molecular modeling	
transverse TU	Scientific English	
Discovery TU	Materials chemistry	
Semester 6 Teaching unit		
	Thermodynamics of solutions	
	Electrochemistry	
fundamental teaching units	Molecular spectroscopy	
	Surface chemistry and catalysis	
	PW surface chemistry	
Methodology TU	PW Physical analysis methods	
transverse TU	Scientific English II	
Discovery TU	Ethics and deontology	