

CHEMISTRY

DEGREE TYPE UPON GRADUATION

Bachelor's Degree

DURATION

3 years (6 semesters)

TEACHING LANGUAGE

Romanian

ECTS POINTS

180

PROGRAMME DESCRIPTION

The Chemistry degree program provides a thorough education in the various branches of chemistry (physical, analytical, inorganic, organic, nuclear chemistry, etc.), allowing graduates to broaden their educational perspective in various related directions, thus laying the foundation for a flexible, attractive and intellectually challenging career, even in cross-disciplinary teams.

TUITION

EU citizens: 3500 RON (approx. € 700)

Non-EU citizens: € 2430

ENTRY REQUIREMENTS

Baccalaureate Diploma

REASONS TO CHOOSE THIS PROGRAMME

- Multiple employment opportunities;
- International study and/or internship mobilities;
- Internships in laboratories and specialised companies.

CAREER OPPORTUNITIES

- laboratories for industrial, clinical, product quality control, monitoring and evaluation of environmental pollutants

- customs, forensic, health police and preventive medicine inspectorates
- research laboratories at home and abroad
- companies for manufacturing and distribution of equipment, medicines, foodstuff and chemicals
- secondary school teachers

PROGRAMME DETAILS

1 st YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Mathematical Analysis	4	E	Linear Algebra and Analytic Geometry	4	E
Electromagnetic and Optical Phenomena	4	E	Basics of Inorganic Chemistry	6	E
Computer Programming and Programming Languages	5	E	Analytical Chemistry - Quantitative Analysis	7	E
General Chemistry	8	E	Basics of Organic Chemistry	6	E
Analytical Chemistry - Qualitative Analysis	7	E	Physical Education and Sport II *	1	V
Physical Education and Sport I *	1	V	Molecular Physics and Heat/ Atomic and Nuclear Physics	5	E
English/French I	2	C	English/French II	2	C

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

II nd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
The Chemistry of Nonmetals	5	E	Organic Chemistry - Mixed Functions and Heterocyclic Compounds	5	E
Organic Chemistry - Simple Functions	5	E	Physical and Chemical Basics of Chemical Technology	3	E
Structure and Properties of Molecules	6	E	Chemistry of Metals	5	E
Instrumental Analysis	6	E	Chemical Kinetics	5	E
Computational Chemistry	4	C	Specialized Practice	5	C
Physical Education and Sport III *	1	V	Advanced Techniques in Instrumental Analysis / Trace Analysis Techniques	5	E
English/French III	2	C	English/French IV	2	C

Academic Ethics and Integrity/ Scientific and Professional Writing and Communication	2	C	Physical Education and Sport IV *	1	V
--	---	---	--------------------------------------	---	---

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

III rd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Chemical Thermodynamics	5	E	Catalysis	5	E
Chemical Technology	6	E	Nuclear Chemistry	5	E
Electrochemistry	5	E	Elaboration of the Bachelor Thesis	4	C
Coordination Chemistry / Organometallic Compounds	5	E	Structure of Inorganic Compounds/ Analytical Control of Environmental Pollutants	4	E
Quality Assurance and Standardisation/ Environmental Chemistry	5	E	Natural Compounds/ Colloids	4	E
Reaction Mechanisms in Organic Chemistry/ Biochemistry	4	C	Materials Chemistry/ Macromolecular Compounds	4	E
Chemical Thermodynamics			Chromatographic Methods of Analysis/ Corrosion and Corrosion Protection	4	E

* course credit points (ECTS) are not taken into account within the semester credit points (ECTS)

* V = test taken in the last two weeks of the semester (about 10% of the final grade)

* C = test taken in the last two weeks of the semester (about 30% of the final grade)

* E = exam taken during the exam period (at least 50% of the final grade)