

MEDICINAL CHEMISTRY

DEGREE TYPE UPON GRADUATION

Bachelor's Degree

DURATION

3 years (6 semesters)

TEACHING LANGUAGE

Romanian

ECTS POINTS

180

PROGRAMME DESCRIPTION

The Medical Chemistry degree programme offers a rigorous theoretical and practical training in chemistry, with applications in medical testing laboratories, hospitals, medical industry and research laboratories in the country and abroad.

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 specialized companies.

CAREER OPPORTUNITIES

- laboratories for medical analysis, product quality control, monitoring and evaluation of environmental pollutants
- customs, forensic science, health police inspectorates and preventive medicine
- research laboratories at home and abroad

- companies for manufacturing and distribution of equipment, medicines, foodstuff and chemicals
- secondary school teachers

PROGRAMME DETAILS

I 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	Human Anatomy and Physiology	5	E
Computer Programming and Programming Languages	5	E	Analytical Chemistry - Quantitative Analysis	8	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
Chemistry of Nonmetals	5	E	Organic Chemistry - Mixed Functions and Heterocyclic Compounds	5	E
Organic Chemistry - Simple Functions	5	E	Chemical Kinetics and Pharmacokinetics	6	E
Structure and Properties of Molecules	6	E	Chemistry of Metals	5	E
Instrumental Analysis	6	E	Advanced Analytical Methods in Medicinal Chemistry	5	E
Drug Chemistry; the Structure-Biological Activity Relationship	4	C	Specialized Practice	5	C
Physical Education and Sport III *	1	V	Biochemistry and Toxicology/ Cell Biology	2	C
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

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III rd YEAR					
I st SEMESTER			II nd SEMESTER		
Subjects	ECTS	Type of assessment	Subjects	ECTS	Type of assessment
Chemical Thermodynamics	5	E	Coordination Chemistry with Applications in Medicine	5	E
Clinical Biochemistry	5	E	Quality Management in the Medical Laboratory	5	E
Immunology	4	E	Preparation of the Bachelor Thesis	6	C
Pharmacology	6	E	Immunochemistry/ Pharmaceutical Technologies	5	E
Clinical Analysis and Testing/ Electrochemistry with Applications in Medicine	6	E	Biocatalysis/ Computational and Structural Medicinal Chemistry	5	E
Inorganic Compounds in Chemotherapy/ Colloids with Biomedical Applications	4	C	Natural Biologically Active Compounds/ Bio- and Nano-materials	4	C

* 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)