

INFOCHEMISTRY (2024)

120 credits

Professional training

Mandatory courses

- Infochemistry
- Research Methods
- Biomaterials
- Computational Methods in Chemistry

1, 2 semesters

12 credits

Elective specializations/modules/courses

- Modern Aspects of Electrochemistry
- Structured and Dynamic Soft Matter
- Introduction in Python
- Triboinformatics
- Chemoinformatics
- DFT Method and Big Data Analysis
- Modern Aspects of Organic Chemistry
- Algorithms and Data Structures
- Sonochemical and Photochemical Methods in Chemistry
- Chemometrics
- Modeling of Chemical and Biological Systems
- Programming and Machine Learning in Quantum Chemical Calculations
- Artificial Intelligence and Machine Learning in Chemistry

1, 2, 3 semesters

42 credits

54 credits

Fundamental training

- Creative Technologies (Master's track)
- Entrepreneurship (Master's track)
- Thinking (Master's track)
- Foreign Language (Master's and PhD tracks)
- History and Philosophy of Science (PhD tracks)
- Applied Artificial Intelligence
- Soft Skills

1, 2, 3, 4 semesters

18 credits

Practical training

- Research Internship
- Pre-Graduation Internship
- Preparation for Thesis Defense and Thesis Defense

1, 2, 3, 4 semesters

48 credits

Optional courses (in English)

- Foreign Language for Professional Activity (Master's and PhD tracks)

3 semester

