BIOINFORMATICS AND SYSTEMS BIOLOGY (2024)

120 credits

Professional training

Mandatory courses

- Introduction to Bioinformatics
- Scientific Python
- Systems Biology
- Medical Genetics

1, 2 semesters

21 credits

Elective specializations/modules/courses

- Statistics
- Advanced Statistics
- Programming in Python
- Molecular Biology
- Discrete Mathematics
- Algorithms and Data Structures
- Translation Research Methodology
- Applied Statistics
- Structural Bioinformatics
- Bioinformatics Algorithms
- Optimization and Sampling
- Advanced Machine Learning
- Biotechnology
- Microbial Omics
- Population Genetics and Genomics

1. 2. 3 semesters

24 credits

45 credits

Fundamental training

- Foreign Language
- Creative Technologies
- Thinking
- Entrepreneurship
- · Applied Artificial Intelligence
- Soft Skills

1, 2, 3 semesters

15 credits

Practical training

- · Research Seminar
- Research Work
- Pre-graduation Internship
- Preparation for Thesis Defense and Thesis Defense

1, 2, 3, 4 semesters

60 credits



- Higher Mathematics Introduction to Linux

