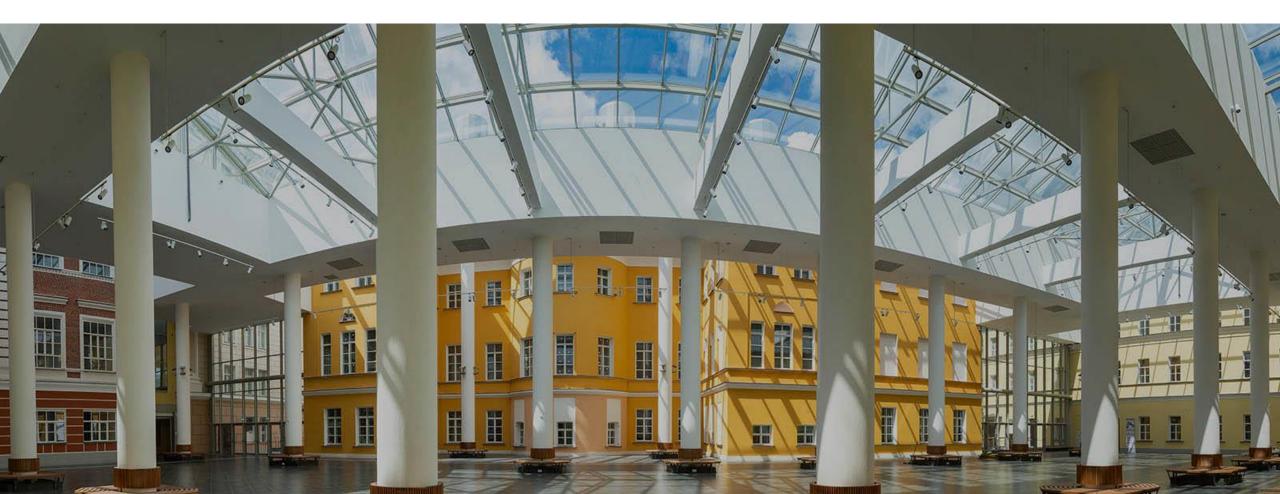




Faculty of Computer Science



About the Faculty

Founded in March 2014

5	bachelor's programmes	16	laboratories
10	master's programmes	1	research center
1	doctoral school	500	employees
5000	students	13	Russian Science Foundation grants
433	foreign students	22	vocational education programmes

HSE University

omputer science

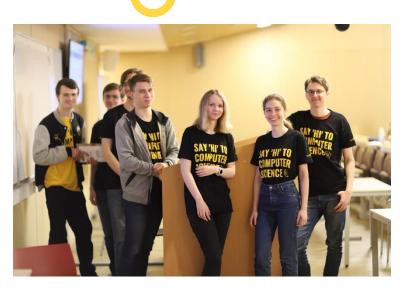
Faculty

About the Faculty











Bachelor's programmes

- Applied Mathematics and Information Science
- Software Engineering
- Data Science and Business Analytics
- Computing and Data Analysis (online)







Center for Student Competitions



HSE Students Win Gold and Silver at ICPC Semifinal



On December 6–7, 2022, the semifinal of the International Collegiate Programming Contest (ICPC) took place in St Petersburg. Two teams from the HSE Faculty of Computer Science won medals at NERC 2022: FFTilted took overall 2nd place and received the gold medal, and It Has To Work took 8th place (silver medal). Two teams from HSE University— FFTilted (Moscow) and Just3Keks (St Petersburg)—will take part in the ICPC finals, which will be held in Egypt in 2023.

FCS Students Win at International Mathematics Competition



Three bachelor's students from the HSE Faculty of Computer Science programme in 'Applied Mathematics and Information Science' recently participated in the International Mathematics Competition for University Students (IMC), winning two first prizes and a second prize.



Studying at the Faculty: scholarships

- Scholarship for International Olympiad for High School Students Winners
 - Scholarship for Research Achievements
 - Scholarship for the Best Study Assistants
 - 1C:Scholarship
- Ivannikov Institute for System Programming Scholarship

- Ilya Segalovich Scholarship
- Student Competition Participants' Scholarship for the first-year students
 - Young Entrepreneur Scholarship
- Scholarship for Study Excellence for the second-year students
- Competitive Programming Achievements Scholarship



Studying at the Faculty: features

- Studying in modules with short exam sessions
- Grading system, importance of accumulated grade
 - Balanced courses

Elective courses

Large volume of homework

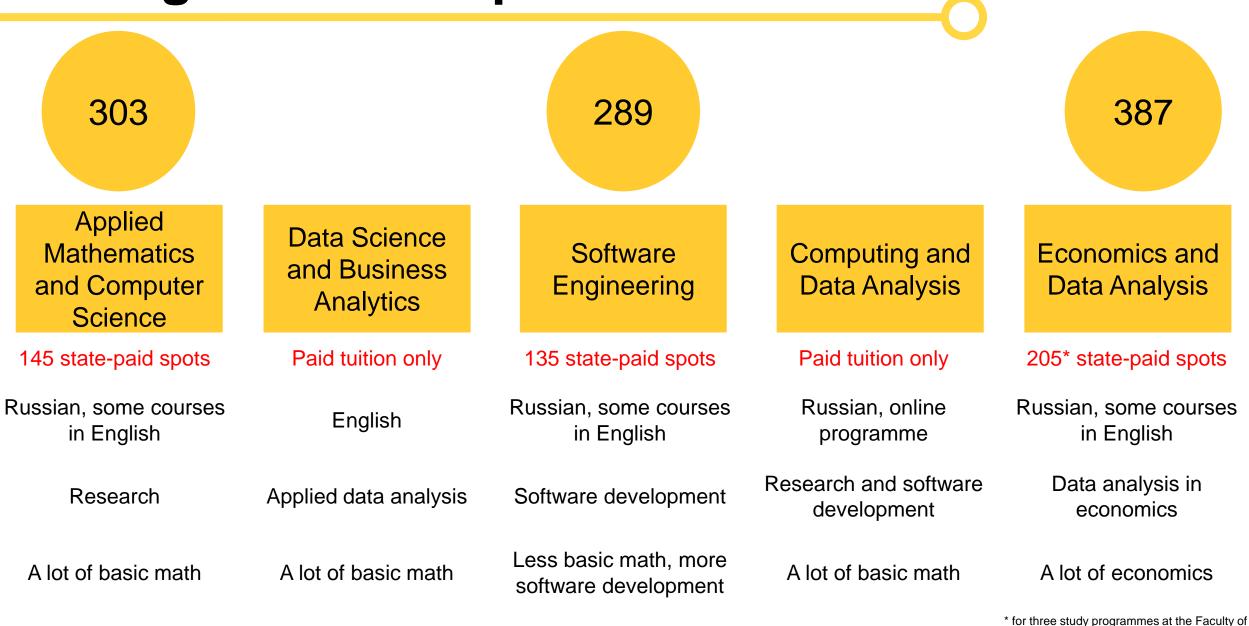
- Research workshops
- International academic mobility

- High level of self-reliance
- English-taught courses in every study programmes





Programme comparison



for three study programmes at the Faculty Economics

Master's programmes

- Data Science (joint with the Kharkevich Institute for Information Transmission Problems)
- Data Analysis in Biology and Medicine
- Math of Machine Learning (in English, joint with Skoltech)
- Financial Technologies and Data Analysis (joint with Sber)
- Machine Learning and Data-Intensive Systems (online)
- Master of Data Science (online, joint with Yandex)
- Modern Computer Sciences (joint with Yandex)
- System and Software Engineering
- System Programming (joint with Ivannikov Institute for System Programming)
- Data Analysis in Development (joint with Samolet)

Joint departments Teaching Yandex Research Sber 1C Topics for theses **Tinkoff Bank** MTS **Scholarships Russian Academy of Sciences'** Projects institutes Ivannikov Institute for System Internships Programming Information Science and Control Training Federal Research Center Steklov Mathematical Institute Workshops

Research: laboratories

- Centre of Deep Learning and Bayesian Methods
- International Laboratory for Intelligent Systems and Structural Analysis
- International Laboratory of Stochastic Algorithms and High-Dimensional Inference
- International Laboratory of Theoretical Computer Science
- International Laboratory of Algebraic Topology and Its Applications

- International Laboratory of Bioinformatics
- Yandex Laboratory
- Laboratory of Methods for Big Data Analysis
- Laboratory of Process-Aware Information Systems
- Laboratory of Complex Systems Modelling and Control
- Laboratory of Models and Methods of Computational Pragmatics

- Laboratory on AI for Computational Biology
- Laboratory on Algebraic Transformation Groups



Research: AI Centre

HSE University was one of six chosen to create artificial intelligence research centres via the federal programme

Partners:

Yandex

25 projects

Ecology, ethics, linguistics, law are just some of the areas where AI may be useful

AI Centre cooperates with other departments of HSE University





Schools

- Fintech School
- Summer School on Machine Learning in Bioinformatics
- Winter School on Software
 Engineering
- Fall into ML
- Summer School on Entrepreneurship





Centre for Internships, Projects and Entrepreneurship

- Projects: research or applied projects for students
- Team projects: students learn to work in teams
- Internships and trainings hosted by enterprises
- Support for entrepreneurial activities of the students

HSE Faculty of Computer Science Holds Summer School on Entrepreneurship





Research: robotics group

Established in 2021

Headed by Denis Simagin

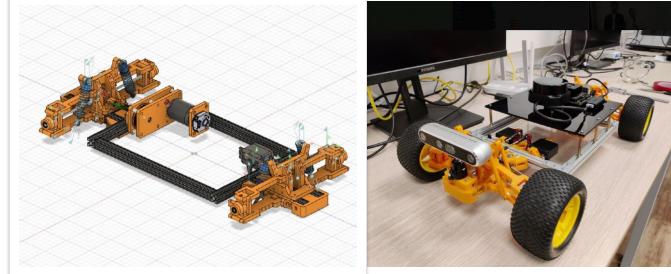
Available for summer student internships

Work on real tasks, not concepts

One of the first completed tasks — CartPole — requires raising a pendulum into the unstable equilibrium by moving a carriage

One of the major aims is to create a walking robot





Faculty events







Events for the prospective students

- Open days
- Online days
- Parents' meetings
- Two days at the Faculty
- Tours of the Faculty
- CERN workshops
- Trainings
- Summer School in CS
- Summer School in Mobile App Dev
- + Schools for information science teachers



Faculty **Computer Science**

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