

Specialization

Computer simulation of physical processes

Specialty 104 Physics and Astronomy

The direction of training is aimed at research of fundamental and applied

The problems of modern physics, from aerospace and hydrodynamics to the physics of the atomic nucleus and

Elementary particles - using mathematical and mathematical methods

Computer simulation

Students study:

- Computer simulation of physical processes.
- Methods of scientific experiment and computational physics.
- Expert evaluation and decision-making systems.
- Processing of digital information.
- Functional-oriented computer facilities and systems.
- Integration and use of analytical tools.
- Software testing and fault tolerance.

Masters of specialization "Computer simulation of physical processes" are engaged

Development and optimization of models describing complex physical processes,

Systems for forecasting development and risks. Alumni take part in

International projects from leading research centers in Europe and the United States.

Opportunities:

- Dual Diploma Program and internships at universities
USA, France and Germany.
- Getting scholarships and conducting research in the European Union.
- Obtaining an educational qualification degree in Doctor of Philosophy.

Issuing Department:

Department of General Physics and Physics of the Solid Body <http://zfft.kpi.ua/ua/>

Head of the Department: Gorshkov Vyacheslav Nikolaevich

Phone of the Department: (044) 204-81-24

The chair is located in the auditorium. 205, building 7

Among the teachers of the departments of physics: 13 doctors of sciences and 38 candidates of sciences

Topics of diploma works performed at the department of the faculty carried out with:

- computer simulation in physics;
- modern experimental technology in solid state physics;
- innovative methods of teaching physical and mathematical disciplines;
- studying the methods for calculating the properties of disordered systems, in particular thermoelectricians;
- Thermomagnetic phenomena in ferromagnets;
- the propagation of spin waves in inhomogeneous magnetic structures;
- nonlinear processes in magnetic materials.

Students are practicing in many institutes of the National Academy of Sciences of Ukraine, departments

Faculty and lyceums.