

Applied Mathematics and Physics 03.04.01

Physics of Kinetic Phenomena

Program objective:

to train specialists in functional nanostructured materials and technologies – foundations for the breakthrough development of smart technologies.

Students study the physics of surface phenomena, which is necessary for the further development of cluster technologies, carry out experimental and theoretical research as members of research teams. They also study methods for evaluating and selecting new innovative technologies and technical solutions based on the use of nanostructured materials. This allows to reduce energy costs, improve the quality and efficiency of high-tech products.

Curriculum features:

- Design of mass spectrometric instruments;
- Modern problems in the physics of kinetic phenomena
- Physics of membrane processes
- Physical kinetics of atomic processes in nanostructures