

03.03.01 Applied Mathematics and Physics

Quantum Computer Systems and Precision Measurements

Program objective

to train specialists with fundamental physical and technical knowledge in the field of quantum computing systems and data processing.

Courses of the program include subjects that are in great demand in the field of modern science and technology:

- machine learning
- data analysis
- numerical methods
- detection of hidden trends and patterns of production development
- forecasting the development of economic processes
- modeling of solid state physics
- astrophysics
- quantum mechanics
- alphabetic algorithms in bioinformatics

Students of the program have the opportunity to be acquainted with a wide range of programming languages (Python, C++) used for data analysis in leading IT companies.

Career opportunities

leading research centers and companies specializing in physical and technical measurements and in the following research areas:

- Precision measurements
- Nonlinear and quantum optics
- Data analysis and machine learning
- Modeling physical systems