

03.04.01 Applied Mathematics and Physics

Quantum Computer Systems and Precision Measuring

Program objective:

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

Curriculum features

- machine learning
- data analysis
- programming languages (Python, C++)
- quantum computation methods
- quantum register data processing and information technologies
- nonlinear and quantum optics
- data analysis and machine learning
- modeling physical systems

Career opportunities

leading research centers and companies specializing in:

- physical and technical measurements
- financial supervision and fraud detection
- data mining in economics
- 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.