Model of standards-based curriculum

Master's programs for graduate students **Engineering for** Foundations of Physics of quantum Quantum devices Quantum communication quantum information and networks information quantum computer Estimation theory and Advanced quantum computation Foundations of quantum compiler evaluation of quantum Spiral approach Advanced quantum Advanced theory of device Foundations of quantum algorithms quantum entanglement Differential equation and architecture complex analysis **Quantum programming Quantum input-output** Signal and communication **Exercises of classical compiler for** language protocol Graph theory and group quantum computing theory Quantum coding theory **Exercises for classical computer** Information theory architecture for quantum Theory of cryptography **Advanced quantum Shannon theory** Quantum control theory computing Atypical quantum algorithm Quantum communication Advanced quantum **Exercises of classical OS** theory cryptography Quantum for quantum computing thermodynamics Quantum cryptography **Quantum error** Architecture for fault tolerant system correction **Quantum simulation** quantum computation Science of quantum Methods of numerical Quantum machine learning programming language of fault tolerant calculations for networks quantum computer and quantum Geometry of quantum quantum information machine, and design of compiler information theory (SDP, ML, etc.) Common subjects Public relations of advanced science **Entrepreneurship** Legal development and quantum technology

