

## **Physics and Economics of Nuclear Technologies**

*developed and implemented with support of the State Atomic Energy Corporation "Rosatom"*

Double degree program:

- 14.04.02 "Nuclear Physics and Technologies" (MEPhI)
- 38.04.01 "Economics" (All-Russian Foreign Trade Academy of the Ministry of Economic Development of the Russian Federation).

### **Program objectives:**

to train specialists in physics and thermophysics for design, production, technological, research and management activities in operation and development of advanced nuclear power plants.

The program combines natural science and engineering training with the study of fundamental economic disciplines and applied courses of world economy.

### **MEPhI curriculum subject areas:**

- nuclear reactors and power plants
- thermohydraulic and neutron-physical processes in the cores of nuclear reactors coolants
- materials for nuclear reactors
- nuclear fuel cycle
- safety systems for nuclear power plants
- control systems for nuclear physics facilities
- software systems and mathematical models for theoretical and experimental research of phenomena and patterns in thermophysics
- promising methods of energy conversion.

### **FTA curriculum subject areas**

- micro and macroeconomics
- econometrics
- foreign economic activity
- international trade
- marketing and market research
- economics and logistics of foreign trade
- legal regulation of export-import transactions
- accounting, including IFRS, financial management and investment analysis

- main types of international transactions and settlements.

**Program competitive advantages:**

- combination of resources and competencies of two leading Russian universities (MEPhI - FTA);
- research and production practical training at core companies of the State Atomic Energy Corporation “Rosatom”
- in-depth study of business English (business correspondence, linguistic specifics of management and marketing activities, business negotiations and contract operations).