

Automation and Information-Measuring Systems of Physical Installations

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Degree or qualification is awarded: **Specialist degree**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **5,5 years**

Availability of free education: **yes**

Price: **242 320 rubles per semester**

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The goal of the educational program: personnel training for organizations and enterprises of the State Atomic Energy Corporation "Rosatom" and the Russian Academy of Sciences in the field of automation, automatic control, monitoring, measurement, processing of information and data for a wide variety of physical installations.

Targeted programs for which training is performed: "Development of the Nuclear Power Industry of Russia," "A New Generation of Nuclear Energy Installations," "Innovative Development Program of the Rosatom Corporation," "Personal training for science centers," and "National Technological Base."

The curriculum includes blocks of humanities, social and economic cycle, mathematics and natural cycle, the professional cycle, including specialization "Automation and Information-Measuring Systems of Physical Installations", the research work of students, practical training at base businesses and organizations. A considerable amount of studies is conducted in specialized training laboratories with modern actual equipment and software, including the following laboratories: "Control and Safe Operation of Nuclear Installations," "Digital Control Systems," "Information Technology and Information-Measuring Systems."

Practice

Computer practice is performed on 1st and 2nd semesters. Practice and research at the department and base enterprises are on the 7th, 8th, 9th and 10th semesters.

Pre-diploma practical training at base businesses and organizations is on the 10th and 11th semesters.

The program of continuous training: Specialist's Degree - Master of Science - Post Graduate

Educational trajectory - specialties. Trajectory of discontinuous training: Specialty -> [magistracy] -> [postgraduate study] -> enterprises and organizations of the nuclear industry. Trajectory of continuous training: Specialties -> postgraduate study -> research and design organizations of the nuclear industry.

Specializations within this programme

Electronics and Automation of Physical Installations

Scope and objects of professional activity of graduates: physical and nuclear- physical installations and systems of their safe operation; information-measurement systems; I&C systems; process control systems; diagnostics and automated control of physical installations and technology of their design, development, implementation, and maintenance; and mathematical models for theoretical and experimental studies of physical and technological processes in physical installations.