

Monitoring and Control Systems of Nuclear Power Plants

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 Rosatom corporation in the area of monitoring, control and automation of nuclear facilities and nuclear power plants.

Targeted federation programs for which training is aimed: "The development of nuclear power industry of Russia", "A new generation of nuclear energy installations", "Innovative Development Program of Rosatom corporation".

The curriculum includes blocks of humanities, social and economic cycle, mathematics and the natural cycle, the professional cycle, including specialization "Monitoring and control systems of NPP", the research work of students, practical training at the 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: "Hardware and software for process control system of NPP", "Control and safe operation of nuclear power plant", "Digital control systems", "Information Technology and information-measuring systems".

Practice

Computer practice is performed on 1 and 2 semesters.

Practice and research at the department and base enterprises - on 7, 8, 9 and 10 semesters.

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

The list of base enterprises for practice: FSUE "VNIIA", JSC "VNIIAES", JSC "SNIIP", SIC "CI", JSC "AEP", JSC "NIKIET" etc.

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

Nuclear power plants: design, operation and engineering

Scope and objects of professional activity of graduates: nuclear installations, nuclear power plants, safety operation systems, I&C systems, process control systems, diagnostics and automated control of nuclear power installations and NPP, technology of their design, development, implementation and maintenance. Target companies for the employment of graduates: industrial research institutes, design and manufacturing businesses and organizations of Rosatom State Corporation and Concern Rosenergoatom.