The Physics of Nuclear Power Installations

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

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

Language of study: **Russian**
Mode of study: **full-time**
Duration: **4 years**
Availability of free education: **yes**
Price: **80 860- 110 900 rubles per semester**

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Main purpose of the Program: To provide graduates basic humanitarian, social, economic, mathematical and scientific knowledge. Provide graduates generic and subject-specialized competencies; prepare bachelors for admission to the Magistracy. To give in-depth knowledge of neutron-physical and Thermo-hydraulic processes occurring in reactor core, in normal operation, as well as in emergency and transitional modes.

The scope of professional activity: Research, design and technology, aimed for registration and information processing, development of theory, creation and use of nuclear installations, nuclear safety provision.

The brief description of the curriculum: 1) Deep physics and mathematics, as well as information technology training and competences in the field of critical technologies that provide reliable employment.
2) Unified basic training on humanitarian, scientific and general-professional disciplines for the Faculty within two years.
3) Basic special disciplines of the graduating chair (3-4th classes): "The neutron transport theory", "Physical theory of nuclear reactors," "Methods and tools for physical measurements," "Experimental reactor physics", "Engineering calculations and energy equipment of nuclear installations."

The graduates are offered to work at research institutes and enterprises of the State Corporation “Rosatom”.

Specializations within this programme

Nuclear Physics and Technology

The objects of the professional activity: Nuclear reactors, mathematical models for theoretical and experimental studies of the phenomena and regularities in the field of reactor safety, proliferation and interaction of radiation with objects of animate and inanimate nature, ensuring the security of nuclear materials, facilities and installations of Atomic Energy and industry.