

# Nuclear Physics Methods for Investigating Substance Properties

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

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

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **207 610 rubles per semester**

Programme webpage at the university website:

[http://eis.mephi.ru/AccGateway/index.aspx?report\\_url=/Accreditation/program\\_annotation&report\\_param\\_pid=92](http://eis.mephi.ru/AccGateway/index.aspx?report_url=/Accreditation/program_annotation&report_param_pid=92)

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**Field of study:** "Nuclear Physics and Technologies".

**Duration of training:** 2 years, 120 credits.

**Course delivery language:** russian.

**Basic department:** Applied Nuclear Physics (No. 24).

**Goal of the program:** The program is intended for training bachelors graduated from the bachelor's educational specialty "Nuclear Physics and Technologies". The knowledge of this program allows a graduate to obtain the researcher qualification and to apply the knowledge received to development of new technologies for designing equipment for various experiments. Due to the particular attention paid to the fundamental disciplines, study of the program gives the possibility to use the knowledge for solving a wide spectrum of problems: to carry out non-destructive testing of different objects, monitor the environment, and search for extremely dangerous substances.

**Leader of the direction:** V. V. Kadilin, acting head of the department, Ph. D., Ass. Professor

The educational plan contains the following discipline cycles: humanitarian-social, natural-mathematics and professional. The general view on the world is formed during study of humanitarian-social cycle, studying economics and foreign languages during this cycle being of great importance. Studying subjects of natural-mathematics cycle, a student receives the base for carrying out research and projecting. Studying of professional cycle disciplines helps to form the specialist-researcher and specialist-designer of modern nuclear physics facilities.

Part of the curriculum is also implemented in English.

Masters graduated from this specialty are researchers capable of solving a wide spectrum of problems of nuclear radiation physics, environmental monitoring, search for extremely dangerous substances, and nuclear device engineering. The supposed places of graduates work: National Research Centre "Kurchatov Institute", Dukhov All-Russia Research Institute of Automatics, Scientific Research Institute of Technical Physics and Automation, Bochvar High-Technology Research Institute of Inorganic Materials, and others.

**Specializations within this programme**