Mathematical and Informational Support of Businesses and Industry

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: **72 150 – 138 400 rubles per semester**

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The purpose of the program: to prepare highly qualified students for work in the field of information technology, economics and management; for work in the organizations of high-tech branches of the Russian science and industry.

Field of study: "Applied Mathematics and Informatics".

Duration of training: 4 years, 240 credits.

Course delivery language: russian.

Basic department: System analysis (No. 28).

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

Learning blocks of vocational training:

Students, along with basic training in mathematics and natural science, computer engineering and programming, study a wide range of professional disciplines that form the following blocks:

- applied mathematics – probability theory and mathematical statistics, optimization methods, operations research, systems analysis, decision-making theory, data analysis, visual analytics;
- informatics (computer science) – database design, development of information and analytical systems for enterprise management, tools for information systems development, software engineering, information security;
- economics and management - modeling of economic systems, models and techniques of project management, modeling and optimization of business processes, economics of information systems, financial security.

The competencies generated as a result of training allow graduates to find a decent job in the research, design and industrial organizations of various ownership forms.

Parts of the curriculum are taught in English

Specializations within this programme

Areas of professional activity of graduates

Analysis of the activity of enterprises and organizations, design of business processes functional models:

- design of databases and information systems for enterprise management;
- development of architecture, algorithms and programming technique for applied software;
- implementation and operation of enterprise management systems (erp-systems) and product data

management systems (pdm-systems).