

System Analysis and Management

National Research ITMO University

Degree or qualification is awarded: **M.S. in Systems Analysis and Management**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **262 000 Rub per year**

Programme webpage at the university website:

<https://en.itmo.ru/en/program/217/Motion%20Control%20and%20Navigation%20Systems.htm>

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In the block of the general technical disciplines the engineering and computer graphics, materials science, theoretical mechanics, theoretical bases of electrical equipment and electronics are studied. The theory of automatic control, the system analysis, automation and decision-making belong to basic professional subjects. A number of courses is devoted to IT preparation: theory and technology of programming, theory of information systems, modeling of systems, etc.

Specializations within this programme

Motion Control and Navigation Systems

PROGRAM DESCRIPTION

This corporate Master's program trains specialists competent in solving fundamental and applied tasks occurring in the creation of control systems, novel navigation sensors, and information and navigation systems on their basis.

The curriculum includes both general engineering subjects helping students form essential skills in designing, building and developing technical and cyberphysical systems, and specialized courses. Special disciplines offer an in-depth study of systems for control and navigation of different objects – surface, underwater, ground, underground and space.

The program includes the following specializations:

- The specialization Information and Navigation Systems focuses on the development and design of navigation systems;
- The specialization Algorithmic and Software Support focuses on the development and debugging of software for information and navigation systems and complexes;
- The specialization Control of Surface Ships focuses on the synthesis of motion control and navigation algorithms for surface ships.