Mechatronics and Robotics

Saint Petersburg National Research University of Information Technologies, Mechanics and Optics

Degree or qualification is awarded: **M.S. in Mechanical Engineering**

Language of study: **Russian, English**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **yes**
Price: **239 000 RUB per year**

Programme webpage at the university website:

Programme curator: **Alexey Bobtsov**
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The direction combined two previously independent specialties: robotics and mechatronics. As a result the highly topical specialized program which is not leaving time for general-theoretical disciplines turned out.

**Specializations within this programme**

**Intelligent technologies in robotics**

This master program is oriented on the acquisition of theoretical and practical skills in the field of modern intelligent managing systems of robotic technical systems of various levels and assignments.

Theoretical classes give deeper knowledge in fields such as dynamics of robotic systems, digital management systems development, implementing of adaptive and robastic robot steering algorithms.

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**Molecular technologies in biomechatronics (CEP)**

In this master program the emphasis is put on the following innovative fields: technical vision, biomechanics, smart managing systems, experimental mechanics and robotics.

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**System modeling in mechatronics**

In this educational program masters study such disciplines as technical vision, methods of artificial intelligence in mechatronics and robotics, computer management of mechatronic systems, design and development of mechatronic systems, information systems in mechatronics and robotics, system-related technical solutions in mechatronics.

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**Network and multiagent systems**

This program is oriented on the training of high level specialists essential in the spheres of economics, with the need in development of systems, which provide management of multiagent systems (dynamic networks), optimal managing systems, optimum seeking regimes related to the objects of different nature; development of nonlinear and self-
adjusting management systems; design, construction and exploitation of mechatronic and robotic technical systems.

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**Industrial robotics**

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