

Control in Technical Systems (Postgraduate)

Saint Petersburg Electrotechnical University "LETI"

Degree or qualification is awarded: **PhD**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **220 000 rubles per year**

Programme webpage at the university website:

<https://etu.ru/ru/obrazovatel'naya-deyatelnost/aspirantura-i-doktornatura/>

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Graduate Department: Department of Information and Measurement Systems and Technology, Department of Automation and Control Processes

Program purposes

Main objective of training is formation of profound theoretical knowledge and practical skills in the field of theory of automatic control, theory of measurements, theory of systems, metrology, development of new methods of their research and design; skills of teaching activities for educational programs of higher education.

Field of professional activity

The field of professional activity includes development of new methods of management, information processings and search of new constructive decisions in creation of management systems technical objects, information and measuring and controlling systems, carrying out researches in the field of the theory of control, measuring technique, methods of artificial intelligence.

Objects of professional activity

Objects of professional activity are: management systems of technical objects that include information and sensor, process execution and controlling modules; information, measuring and controlling systems, their metrological, mathematical, algorithmic support and software; methods and means of their design, simulation, pilot research and design; conducting of theoretical and pilot researches of management systems of technical objects of different function.

Features of the curriculum

The curriculum includes mastering of modern theoretical questions, practical training, doing of laboratory practical works on modern and unique equipment, conducting research in the form of classroom occupations and in the form of independent work. The central place in training of graduate students is research and preparation and defense of thesis, preparation of PhD thesis under the leadership of outstanding scientists participating in research projects in relevant areas of basic and applied researches, that allows to create at graduate students ability to work in research team, to generate new ideas and also to show skill of independent research. In the course of research graduate students acquire skills of search and analysis of scientific and technical information, learn current problems of development of science and technology, acquire skills of setting research problems, representation, approbation and protection of results of researches. Special attention is paid to training of compilation of reviews, reports and preparation of publications, implementations of results of researches.

Specializations within this programme

Standardizing and product quality control

Data measuring and managing systems

System analysis, management and data processing