

Computer Security (Specialist)

Saint Petersburg Electrotechnical University "LETI"

Degree or qualification is awarded: **Specialist**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **5,5 years**

Availability of free education: **yes**

Price: **190 000 - 199 000 rubles per year**

Programme webpage at the university website: <https://etu.ru/en/study/bachelors-degree/10.05.01-computer-security>

Programme curator: **Maria Titarenko**

Tel.: **+7 812 234-35-53**

E-mail: mytitarenko@etu.ru

Graduates of the program can:

- develop models of threats and models of the violator of information security of specific objects of informatization;
- create requirements to support information security of objects of informatization;
- create the list of safety features of an object of informatization and select rational methods and means of their implementation;
- develop project decisions on the systems of support information safety of objects of informatization;
- carry out the analysis of systems in the protected execution regarding their compliance to requirements for support of information security;
- ensure information security of design processes, creations, upgrades of objects of informatization;
- develop drafts of normative and legal acts of the enterprise, establishment, organization regulating activities for support of information security of objects.

Main disciplines

- The mathematical and natural-science program cycle of training of specialists provides the profound mathematical preparation including, besides the general disciplines of the mathematical analysis and algebra, special mathematical disciplines:
- the discrete mathematics
- logic theory and algorithm theory,
- optimization methods,
- probability theory and mathematical statistics,
- theoretical fundamentals of informatics,
- mathematical bases of information security

The professional program cycle of training of specialists includes the following main disciplines:

- algorithms and data structures
- object-oriented programming
- technologies of software development
- operating systems
- technologies of databases
- infocommunication systems and networks

There is also a wide range of special disciplines:

- number-theoretic methods of cryptography
- cryptography methods of information security
- cryptography protocols
- models of safety of computer systems
- methods of violation of safety and virology
- protection of computer networks and telecommunications
- protection of operating systems and database management systems

- technical means and methods of information security
- technical protection of objects of informatization
- technology of development of information systems in the protected execution
- organizational legal support of information security.

Specializations within this programme

Information security of the objects of informatization on the base of computer systems