

Electronics and Nanoelectronics (Master)

Saint Petersburg Electrotechnical University "LETI"

Degree or qualification is awarded: **Master**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **208 000 rubles per year**

Programme webpage at the university website:

<https://etu.ru/en/study/masters-degree/electronics-and-nanoelectronics>

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The backbone of the program lies in study of natural sciences aimed at developing the creative abilities of students, therefore there is a Nobel laureate among the graduates of the faculty, as well as many scientists, engineers, successful businessmen, poets and musicians. Training is conducted on high-tech equipment, using modern information technology. Practice in leading Russian and international companies and enterprises in St. Petersburg.

Master's programs

The following programs in Electronics and Nanoelectronics (11.04.04) are available:

- Microwave and Telecommunication Electronics (Department of Microwave Electronics);
- Electronic Instruments and Devices (Department of Electronic Instruments and Devices);
- Physical Electronics (Department of Physical Electronics and Technology);
- Radiooptonics (Department of Physical Electronics and Technology);
- Nanoelectronics and Photonics (Department of Micro- and Nanoelectronics);
- Micro- and Nanoelectronic Systems (Department of Micro- and Nanoelectronics);
- Semiconductor Optoelectronics (Basic Department of Optoelectronics);
- Quantum and Optical Electronics (Department of Quantum Electronics and Optoelectronic Devices);
- Solar Heterostructural Photoenergetics (Department of Quantum Electronics and Optoelectronic Devices).

Training facilities

Modern educational technologies are widely used in the educational process such as computer testing, videoconferences, interactive defense of laboratory works and course projects.

All the course projects, practical classes and individual assignments provided by the educational program are carried out by students at a modern computer classes where modern original authorized and licensed software packages designed in Russia and overseas.

There are several educational and research laboratories for students, where bachelor's and master's classes are held, research works and experimental studies are conducted, which is the basis for preparation of bachelor's, master's, master's and doctoral theses. The following research laboratories are present at the faculty:

- Microwave and Telecommunication Electronics;
- Spin-wave Electronics;
- Thin Film Technology;
- Physics and Technology of Oxide Film Heterostructures;
- Plasma Instruments and Devices;
- X-ray Diagnostics and Industrial X-ray;
- Quantum Instruments and Devices;
- X-ray Spectral Analysis;
- Microprocessors in Electronic Devices;
- Vacuum and Plasma Technologies;
- Analogue and Digital Circuitry;
- Electronic Devices for Transmitting and Displaying Information.

Specializations within this programme