Field of Study: **Electronics and Nanoelectronics**

Major: **Microelectronics and Solid State Electronics**

Ivanovo State University of Chemistry and Technology, Russia
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Awarded degree or qualification:	Bachelor
Language of instruction:	Russian (Preparatory Department for studying Russian language is available)
Form of training:	Full-time
Duration:	4 years
Possibility of free training:	Yes (see more)
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1. Programme description

Modern life is impossible without microelectronic devices. Students will learn the arrangment, operating principles and manufacturing technology of various micro - and nanoelectronics products. Specialists in the sphere of electronics are highly demanded in all branches of science and technology and provide the development of high technologies.

The education programme trains specialists in the field of technology for microelectronics and nanoelectronics materials production. The training programme provides knowledge in the field of electronics, design of electronic devices, micro- and nanotechnology.

2. Programme objectives

The graduate will be able to perform the following tasks:

- carry out technological processes during the electronic materials and products manufacturing;
- perform work preparation of electronic materials and equipment production;
- introduce the research and development results into the production process;
- monitor the production discipline and efficient resources use;
- organize metrological support for electronic materials production;
- perform mathematical modeling of electronic devices and circuits.

3. The field of professional activity of graduates

The professional activity (at industrial enterprises, research and development institutions) is directed at modern micro-and nanotechnology application in electronic materials and products production.

A graduate will be able to carry out professional activities in industrial enterprises and in research organizations engaged in the production, research and exploitation of electronic products.

4. The educational programme prepares:

- specialists and managers in the field of micro and solid state electronics;
- research engineers for research and development institutions.

Students enrolled in this programme will become elite graduates who are able to conduct research and promote high-tech technologies in production.

5. Major disciplines:

"Physical bases for electronics"
"Electronic equipment components"
"Solid-state electronics materials technology"
"Design and production basis of electronic devices technology"
"Microprocessor devices"