



Field of Study: **Chemical Technology**

Major: **Electronics and Nanoelectronics Materials and Products Technology**

Ivanovo State University of Chemistry and Technology, Russia  
isuct.ru | vk.com/isuct | instagram.com/isuct.ivanovo

<b>Awarded degree or qualification:</b>	Bachelor
<b>Language of instruction:</b>	Russian (Preparatory Department for studying Russian language is available)
<b>Form of training:</b>	Full-time
<b>Duration:</b>	4 years
<b>Possibility of free training:</b>	Yes ( <a href="#">see more</a> )
<b>Contacts:</b>	international@isuct.ru +7 920 372 69 78    +7 4932 30 09 60

## 1. Programme description

Laser, plasma, electronic and ion technologies give the opportunity to create micro- and nanoelectronic devices with unique properties; they 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 electronics and nanoelectronics materials production. The training programme provides knowledge in the field of vacuum-plasma processes, nanotechnology, materials science, and laser technologies.

## 2. Programme objectives

The graduate will be able to perform the following tasks:

- operate technological processes for the production of ultra-high-purity materials for electronic industry, nanomaterials and nanocoating technologies;
- to organize workplaces, their technical equipment, installation of technological equipment;
- carry out incoming raw materials control;
- monitor the technical conditions and equipment residual life, to organize preventive maintenance inspection and service;
- determine manufacturing issue and to develop clearing methods;
- perform technological processes modeling, using application software.



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### **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 materials and products.

### **4. The educational programme prepares:**

- technologists, managers and research engineers in the field of nanoelectronic production.
- researchers in scientific-research and project organizations.

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 basis for electronics"

"Vacuum-plasma processes and technologies"

"Particle-photon processes and technologies"

"Electronic engineering materials technology"

"Technology and equipment for the production of electronic equipment"