



Field of Study: **Technological Processes and Production Automation**

Major: **Technological Processes and Production Automation**

Ivanovo State University of Chemistry and Technology, Russia

isuct.ru | vk.com/isuct | instagram.com/isuct.ivanovo

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)
Contacts:	international@isuct.ru +7 920 372 69 78    +7 4932 30 09 60

1. Programme description

Automation and control are two the most important components of any modern production. Knowing of the principles, methods and means of automation and control helps to solve the problems of labour productivity rise, cost reduction and products quality improvement as well as ensures equipment safe and smooth operation.

The educational programme is aimed to train engineers for chemical and related industries, instrument and mechanical engineering. The training programme provides professional skills in various fields such as instrumentation, electronics, power and resource-saving technologies, physics and nanotechnology.

2. Programme objectives

The graduate will be able to perform the following tasks:

- to control automation processes in accordance with high-performance technologies requirements;
- to manage the lifecycle of the product and its quality;
- to choose process and production automation tools, hardware and software for automatic and automated control systems;
- to develop cycle product models as objects of automation at all stages of its life cycle;
- to design the architecture of hardware and software systems for automated control and management systems in various industries;
- to participate in algorithmic and software tools, automation and control systems development.

3. Graduates professional activity



Field of Study: **Technological Processes and Production Automation**

Major: **Technological Processes and Production Automation**

Ivanovo State University of Chemistry and Technology, Russia

isuct.ru | vk.com/isuct | instagram.com/isuct.ivanovo

Graduate professional activity is focused on the design and operation of automation and control tools. In their work professionals in this branch use modern computing and information technologies. The graduates will be able to carry out professional activities in research organizations, design organizations and departments of industrial enterprises in various industries, divisions of law enforcement agencies as well as in small and medium-sized businesses where there is a need for qualified personnel in the field of automation and control.

4. The educational programme trains:

- designers and developers of automation systems in various industries;
- engineers for maintenance of technological systems and processes at the industrial enterprises.

Students enrolled in this programme will be able to successfully solve problems in the field of automation and control in technical systems.

5. Major disciplines:

- "Technological process automation";
- "Design of automation systems";
- "Automation devices and systems";
- "Microprocessor tools for automation systems";
- "Automation and control tools";
- "Diagnostics and reliability of automated systems";
- "Mathematical foundations of Cybernetics";
- "Automatic control theory";
- "Technological processes of automated production";
- "Modelling of systems and processes".