



Field of Study: **Chemical Technology**

Major: **Chemical, bio - and nanotechnologies of textile**

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 (see more)
<b>Contacts:</b>	international@isuct.ru +7 920 372 69 78    +7 4932 30 09 60

## 1. Programme description

Today nanocoating is of great interest. "Smart" textile is considered to be an important dimension of modern textile industry. It possesses suitability and has a positive impact on human health.

The educational programme trains specialists in the field of chemical technologies for textile materials finishing and textile nanotechnology. Different methods for obtaining textile materials and products are taught. The educational programme gives knowledge in "smart textile" development, nanotechnologies of fabric finishing, digital dyeing technologies, environmentally - friendly technologies for textile materials production, quality and technological processes monitoring.

## 2. Programme objectives

The graduate will be able to:

- operate technological production processes, work locations, layout planning;
- provide engineering support, maintenance, diagnostics, service and operation of industrial production;
- produce textile materials for various purposes;
- produce nanocoating on different fibrous textile materials;
- analyze scientific and technical details, advanced domestic and foreign experience in this field;
- make out reviews, reports, and research articles;
- adopt research and development results.



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### **3. The field of professional activity of graduates**

The professional graduate activity (at industrial enterprises, research and development institutions) aims to advanced technologies in textile materials production and finishing implementation. A graduate will be able to carry out professional activities in industrial enterprises and in research organizations in spheres of light industry and nanotechnology.

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

- chemical and research engineers, experts for accreditation centers and crime labs investigators;
- technologists and managers in the field of textile production.

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:**

- "Textile materials enzymatic modification"
- "Textile design history and future"
- "Materials science and mechanical technologies of fibrous materials"
- "Dye application physical and chemical basic principles"
- "Textile materials chemical technology"
- "Finishing production equipment"
- "Fibrous polymers physics and chemistry"
- "Industrial companies design basic principles"
- "Practical coloring"
- "Colour science"
- "Practical industrial technologies"