



Field of Study: **Chemical Technology**
Major: **Natural gas processing technology**

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

1. Programme description

In recent years, the production of natural gas and gas condensate has been rapidly increasing. At the present stage of development, gas is considered not only as the most noble and cost-effective fuel. Depending on the sales conditions and consumer requirements, it is possible to obtain mixtures of various components, such as a wide fraction of light hydrocarbons, unstable gasoline, raw helium, etc. The production of gas, its condensate and sulfur-gas condensate-oil fields is a complex raw material for many industries, which makes a specialist in the area of natural gas processing very popular.

The educational programme allows to prepare specialists for the chemical industry enterprises engaged in advanced processing of natural gas into valuable chemical products. The training programme provides knowledge in various fields, in particular, in the field of nanotechnology, inorganic and organic chemistry, resource and energy-saving technologies, and materials science.

2. Programme objectives

The graduate will be able to perform the following tasks:

- to manage the technological processes of industrial processing of natural gas into valuable chemical products;
- to organize workplaces, their technical equipment, installation of technological equipment;
- to check the technical condition and residual life of the equipment, organize preventive inspections and maintenance;
- to conduct incoming inspection of raw materials;



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- to investigate the causes of defective products in production and to work out measures for its prevention and elimination;
to perform mathematical modelling of processes and objects based on application software packages for scientific research.

3. The field of professional activity of graduates

The professional activity of the graduate is aimed at the implementation of modern nanotechnology in the field of natural gas processing. The graduate will be able to carry out professional activities in industrial enterprises and in research organizations involved in the research, production of inorganic materials and natural gas processing.

4. The educational programme prepares:

- professional workers and managers for the production of inorganic materials and products based on them and for the processing of natural gas into valuable chemical products,
- research engineers, researchers in 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:

"Technology of natural gas processing"

"Technology of mineral fertilizers, salts, alkalis"

"Theoretical foundations of inorganic substances technology"

"Chemical technology of inorganic substances"

"Fundamentals of designing production of inorganic substances and materials"