Bachelor's Degree Program

CHEMICAL ENGINEERING

The professional practice area contains:

- Methods and means of producing substances and materials by physical, physicochemical and chemical processes. Using these substances as raw materials for manufacturing different-purpose products.

- Creating, technical supporting and participating in installing, commissioning, maintaining, diagnosing, repairing and operating industrial production of basic inorganic substances, construction materials, products of basic and fine organic synthesis, polymeric materials, products of oil, gas and solid fuels , medicines.

Graduates have opportunities to work not only at refineries, but also at storage facilities, facilities for oil and oil products transport, as well as at departments of oil and gas treating and primary crude oil processing in production facilities.

Program length: 4 years
Starting date: September, 1st
Language of instruction: Russian
Tuition fee per year: 170,622 rubles
Program Leader: Fedor Buryukin

Candidate of Chemical Sciences in specialties 02.00.01 Inorganic Chemistry, 02.00.04 Physical Chemistry, Head of the academic department

Prerequisites:

- Certificate of Completed Secondary Education
- Admission is conducted on the basis of results of a Standardized State Examination and (or) Entry Tests established by the University

Qualification: BA, BSc in Chemical Engineering

Skills/ objectives:

Knowledge of:
- typical processes of oil refining and production of carbon materials;
- physical and chemical foundations of the reactions occurring in the processes of oil refining.

Skills:
- carrying out the technological process in accordance with the regulations and using technical means for measuring the main parameters of the technological process, properties of raw materials and products
- choosing a rational scheme for the production of a given product;
- evaluating the technological efficiency of production;
- evaluating the criteria of efficiency of the processes of chemical technology of fuel and carbon materials;
- selecting the type of reactor;
- calculating the main characteristics of the chemical process;
- calculating technological parameters for a given process.

Contacts:

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Bachelor's Degree Program

CHEMICAL ENGINEERING

CURRICULUM

- General and inorganic chemistry
- Organic chemistry
- Physical chemistry
- Colloidal chemistry
- Processes and devices of chemical technology
- Calculations of technological processes and oil refining equipment
- Technical thermodynamics and heat engineering
- Fundamentals of Heterogeneous Catalysis and Catalyst Production
- Chemical technology of fuel and carbon materials
- Technology for processing hydrocarbon gases
- Simulation of chemical technological processes
- Synthetic liquid fuel technology
- Technology of petrochemical synthesis and etc.

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