

AUTOMATION AND COMPUTER-INTEGRATED TECHNOLOGIES FOR OIL AND GAS INDUSTRY

Basic courses of specialization:

Algorithms and Programming languages (C++, C#, Pascal, Jawa), Computer Architecture and Peripherals, Automatic Control Theory (MathLab), Technical Tools for Technological Equipment Automation in Oil and Gas Industry, Information Systems for Automated Manufacturing, Basics of Computer-Aided Design (CAD/CAM/CAE), Electronic Components and Tools for Technological Equipment Automation in Oil and Gas Industry, Microprocessors in Automation Tools of Technological Equipment for Oil and Gas Industry, Technological Processes Automation for Oil and Gas Industry, Computer-integrated Technologies and Internet-technologies, Automation Systems Design, modern SCADA-systems (TraceMode), Identification and Simulation of Automation Objects (LabView), Flexible Computerized Robotic Systems, Robotics and Mechatronics (Industry 4.0), Technical and Economical aspects of Automation for Oil and Gas Industry, Modern Tools of Information Transmission and Processing etc.

Qualification: Specialist in the field of Automation and Computer-Integrated Technologies for Oil and Gas Industry.

Future job:

Oil and gas industry enterprises and companies, which require the application of automation tools, automation systems, computer-integrated systems and robots, software and hardware development companies for oil and gas industry, consumer service enterprises, communication and transport companies.

AUTOMATION AND COMPUTER-INTEGRATED RESOURCE-SAVING TECHNOLOGIES. ALTERNATIVE ENERGY

Basic courses of specialization:

Algorithms and Programming languages (C++, C#, Pascal, Jawa), Computer Architecture and Peripherals, Automatic Control Theory (MathLab), Technical Tools for Technological Equipment Automation, Basics of Computer-Aided Design (CAD/CAM/CAE), Electronic Components and Tools for Technological Equipment Automation, Microcontroller Systems of Alternative Energy, Automation of Resource-Saving Technological Processes, Computer-Integrated Resource-Saving Technologies and Internet-technologies, Control Systems for Alternative Energy (SCADA-based systems), Identification and Simulation of Automation Objects (LabView), Geothermal and Wind Energy, Solar Energy Technologies, Materials and Devices of Alternative Energy, Modern Tools of Information Transmission and Processing etc.

Qualification: Specialist in the field of automation and computer-integrated resource-saving technologies.

Future job:

Industry and business companies, which require the application of energy-saving automation tools, automation systems, computer-integrated systems and robots, software

and hardware development companies on energy-saving systems and alternative energy, consumer service enterprises, communication and transport companies.