Brief Description of the Program

Career

Communications engineer. The field of professional activity includes a set of technologies, means, techniques and methods of human activity aimed at creating conditions for the exchange of information over wired, wireless, radio or optical systems, its processing and storage. The objects of professional activity are the fields of science and technology, which include a set of technologies, means and methods aimed at creating conditions for exchange of information at a distance, its processing and storage, including technological systems and technical means ensuring reliable and high-quality transmission, reception, processing and storage of various signs, signals, written text, images and sounds via wired, wireless, radio or optical system.

Educational process

Students are intensively immersed in the profession beginning from the first year of their training. They study communication networks and switching systems, mobile radio systems and devices, intelligent networks and communication systems, multimedia technologies, data transmission systems and devices, information transmission and distribution methods in telecommunication systems and networks, information security facilities in telecommunication systems, methods and features for energy and resource saving, methods and security facilities for service denial in information and communication networks, methods of managing local and distributed processing and storage systems and data management and marketing in telecommunications.

Disciplines

- ✓ Radio Circuits and Signals
- ✓ Digital Signal Processing
- ✓ Basics of Communication Theory
- ✓ Basics of Building Information Communication Systems and Networks
- ✓ Mobile Communication Systems and Networks
- ✓ Antenna-feeder Devices and Radio Wave Propagation
- ✓ Metrology, Standardization and Certification in Information and Communication Systems
- ✓ Energy-saving Technologies in Information Systems
- ✓ Radio Transmitters and Receivers
- ✓ Power Supply for Telecommunication Devices and Systems

Practical training

Each year, students undergo practical training in telecommunication companies, where they apply knowledge and skills in practice in designing multi-service networks, designing, construction and operation of radio devices, radio systems and communication networks, information security of infocommunication systems, use of modern transport technologies, use of multichannel telecommunication systems, design and construction of systems and packet switching networks, etc.

Career

After completing the educational program, graduates will be able to work in telecommunication companies as engineers, design engineers, DCS engineers, radio

engineers, technical support engineers, system engineers, microcontroller programmers or designers.