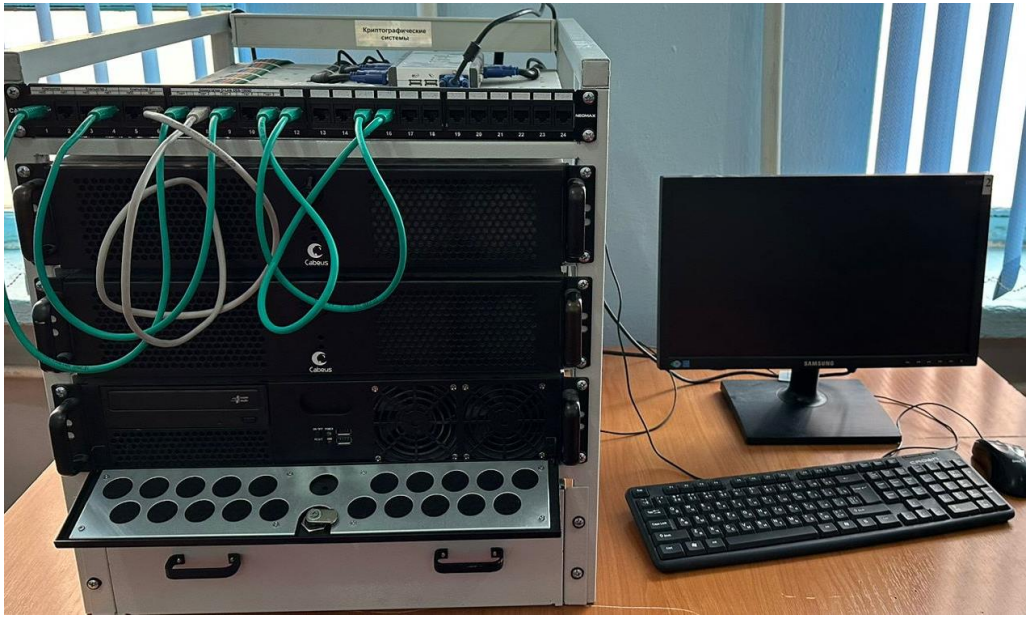
THE MATERIAL AND TECHNICAL BASE OF THE DEPARTMENT APPLIED COMPUTER SCIENCE AND PROGRAMMING

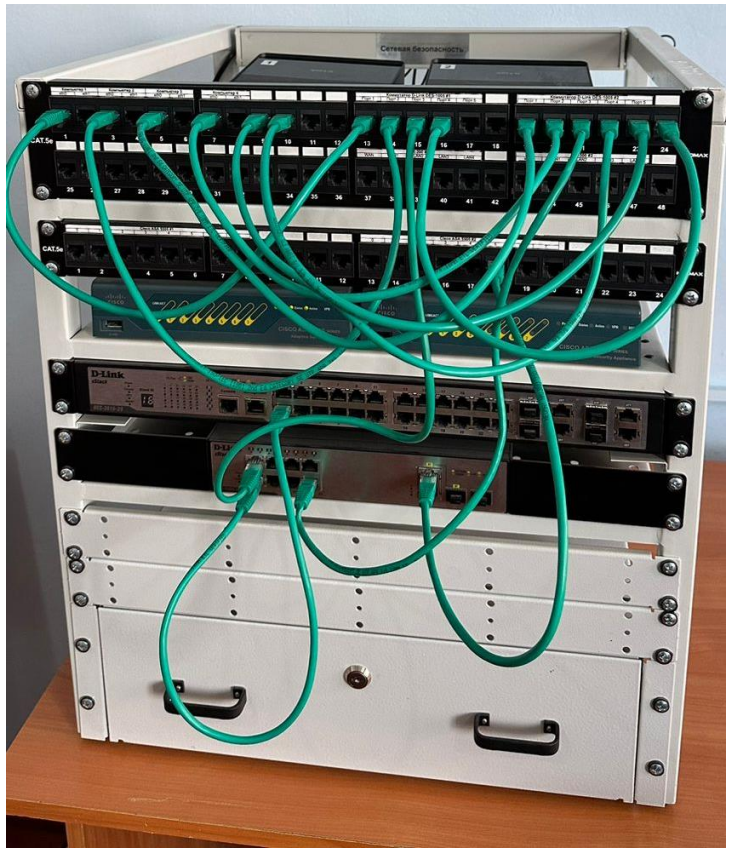
For the organization of the educational process, research work in the areas of bachelor's and postgraduate professional education (master's degree) Teaching staff use specialized classrooms and computer classes equipped with modern educational equipment, and innovative learning technology has been introduced.

Auditorium 2.5.310 - "Automation of control systems", which is fully equipped with equipment: educational and laboratory stand "Automation of control systems", 3D PRINTER -ISO/ASTM 52900:2015; 2.5.324 - laboratory "Network technologies and security" equipped with equipment "Network security" and "Cryptographic systems"; 2.5.337 - "Multi-media interactive circuit engineering complex" as part of laboratory work, students use the HTC VIVE COSMOS virtual reality helmet; 2.5.343 - "Computer class" equipped with modern PCs, Core i7 generation, in a quantity of 10 pcs; 2.5.345 - "Computer class" equipped with modern PCs, Core i7 generation, in a quantity of 10 pcs; 2.5.345 - "Computer class the class is equipped with modern PCs, Core i7 generation, in a quantity of 10 pcs. for conducting training sessions.



STANDARD SET OF EDUCATIONAL EQUIPMENT "CRYPTOGRAPHY"

The kit is designed to study cryptographic tools used in the organization of information security.
The switch is equipped with 5 10/100 Mbit/s ports.
It is designed for encryption and generation of an RSA secret key, generation of a public key using a ready-made secret key, decryption with an RSA private key, digital certificates, and an electronic digital signature.

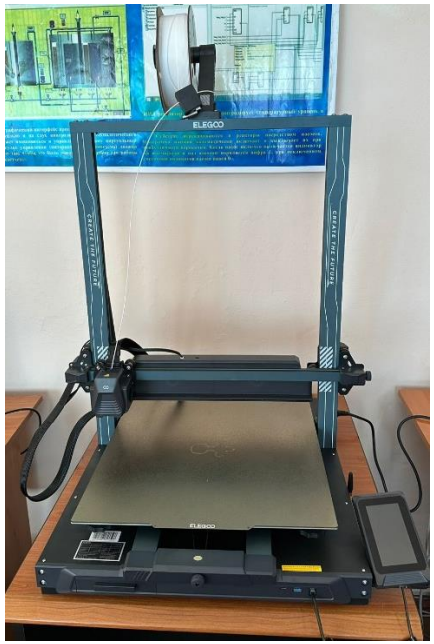


EDUCATIONAL AND LABORATORY STAND "NETWORK SECURITY"

The kit is designed for laboratory work in the disciplines of "Software and hardware information security", "Information security of big data", "Information and network security". The kit allows you to qualitatively simulate local area networks based on IEEE 802.3u/z and IEEE 802.11b/g and TCP/IP stack-based networks, study mechanisms and technologies used to protect wired and wireless computer networks, etc.

EDUCATIONAL AND LABORATORY STAND "AUTOMATION OF CONTROL SYSTEMS"

The complex is designed for effective training in the field of automation and programming. Including software logic controllers, sensors, and actuators, it provides students with the opportunity to use specialized software to develop, debug, and visualize control processes. This complex combines practical experience with educational materials, providing the opportunity to acquire skills in the design and management of automated systems.



3D PRINTER -ISO/ASTM 52900:2015

The kit is designed for laboratory work in the disciplines of "Prototyping technologies", "Computer modeling systems", "Three-dimensional modeling and animation".

Construction: open camera, printing material PLA, Wood, DuraForm TPU, PETG. Connection: SD, USB, Wi-Fi. BY Ultimaker Cura. Compatible with MAC OS, Windows. 3D model file format STL, OBJ, GCODE Printing accuracy X, Y 0.1 mm, positioning accuracy Z 0.1 mm.

VIRTUAL REALITY HELMET
HTC VIVE COSMOS

The kit is designed for laboratory work in the disciplines of "Computer graphics programming", "Computer Graphics and Animation", "Computer modeling systems", "Three-dimensional modeling and animation", "Digital Technologies".