Passport of the educational program
6B06122 Computer Science

Code and classification of the field of education	6B06- Information and Communication Technologies
Code and classification of the direction of training	6B061- Information and Communication Technologies
Number and name of the group of the educational program	B057 Information Technologies
Number and name of the educational program	6B06122 Computer Science
Purpose of the program	Training of highly qualified specialists in the field of computer science, computer technology and IT technologies, that are capable of a quick response in changing socio-economic conditions and ensuring competitive graduates in demand in the labor market.
Distinctive features of the educational program	1. Based on the knowledge gained in the disciplines: Fundamentals of Programming: Python, SQLP, PHP, Python3, Fundamentals of Robotics and Artificial Intelligence There is a possibility of developing scientific projects, startups; 2. Possibility of continuing education in Master's and Doctoral Programms
Availability of accreditation	NO
Learning Outcomes	ON1 –Describe the elements of linear algebra, determine random variables, the simplest theorems of probability theory, find optimal solutions for problems of various types, including using a PC. ON2 – Define the concepts of algorithm and data structures, analysis of algorithms and basic algorithms for solving problems. Define modern high-performance systems, describe robotics as an applied science. Recognize regular expressions in Python. ON3–Analyze knowledge of the requirements for paperwork, adopted in professional communication; understanding of spoken language within the professional field; study the necessary information from foreign language sources. ON4–Outline artificial intelligence as a scientific direction, study the neurocomputer and the basics of neuroinformatics. ON5–Describe the features of building operating systems of the windows family. Describe computer networks. Apply network topology, network devices, network models, and OSI models. ON6–Describe the basic concepts of information technology. Apply information systems technologies of intelligent support for decision-making. ON7– Analyze the architecture and hardware components of computer networks and systems. Describe in general terms the automated form of accounting and how it is organized. To streamline the automated processing of information on labor accounting and settlements with personnel. ON8–Describe the purpose of 3D graphics and applications, components of the 3D world. To apply in practice the user interface of the MacromediaFlash program. Describe the basic elements and constructs of PHP. ON9–Analyze information management. Recognize the cryptographic underpinnings of the blockchain.

	ON10-Describe the basic concepts and categories of statistics, conduct statistical research using series and indices, evaluate techniques for assessing financial and экономисдеятельности организации. ON11-Describe the organization (enterprise) as the main link of the economy, in order to develop an effective plan for the production and sale of products. Assess the main indicators characterizing the situation on the labor market. Calculate tax payments and other liabilities. ON12–Define the concept of a virtual machine. Explain the basics of programming in Perl, Java. Describe the basic blockchain. ON13-Describe information security in the context of the functioning of global networks, the technology of automated system analysis of the organizational and technical complex.
Awarding degree	Bachelor of Engineering and Technology in the educational program 6B06122 "Computer Science"
List of qualifications and positions	Graduates can work as programmers-developers, engineers, network and database administrators, teachers
Professional area	The areas of professional activity of graduates are: - research centers; - technoparks, innovation centers; -organizations of various forms of ownership, in banks, insurance companies, commercial structures, research organizations; - educational institutions (colleges, lyceums).