**My Speciality**

One of the leading departments of Ukraine, whose alumni activities are related to computerization, is the Department of Computer Engineering of Faculty of Informatics and Computing Technique of National Technical University of Ukraine "Kiev Polytechnic Institute"

The peculiarity of the training of our graduates is a profound study of the most modern high-tech fields of science and technology: Information Technology; computer, microprocessor-based electronics; systems and networks of data transfer and telecommunications; computerized control systems.

Our students receive a fundamental knowledge of: programming (algorithmic languages ​​and programming; object-oriented programming; modern programming techniques; systems programming; databases; operating systems; WEB-technologies,etc.); mathematics (higher mathematics, discrete mathematics, probability theory and mathematical statistics, algorithmics, the foundations of artificial intelligence, operations research and mathematical programming, etc.);

telecommunications theory and means(information theory and coding, digital signal processing, basic theory of information processes, information security and computer cryptography, systems and networks for data transfer, hardware and software telecommunications networks and systems, analysis, simulation, operation, monitoring and administration of telecommunications networks and systems, etc.); computer and microprocessor technique (electronics and microcircuitry, computer electronics, microprocessor-based devices, the architecture of computer systems and networks, systems of distributed and parallel computing, design and programming of microprocessor-based systems, etc.);

Theory and Control Systems (the theory of automatic control, system analysis of computerization objects and processes, digital control systems, optimal and adaptive systems, banking and specialized systems and networks, integrated enterprise information management systems, etc.);

design (modern control systems devices design technologies, reliability and diagnostics, networking technologies in technical systems control, design and modeling of computer networks and computerized control systems, etc.).

all this is possible within the specialty "Computer Engineering". "Computer Engineering" and "Software Engineering" specializations are available as part of this specialization.

Department of Computer Engineering trains: Bachelors in "Computer and Software Engineering";

experts and masters of programming, which are assigned, respectively, qualified engineer and master's degree in computer engineering.

The activities of specialists are focused on research, development and implementation of: computerized control systems;

microprocessor-based systems and automation;

telecommunication systems and networks in management;

local computerized systems and networks.

activities of graduates in the field of informatics: organizational, management, research, technology, design and engineering.

Places of employment of graduates: research, analysis, design, research, industrial organizations and institutions of state and private forms of ownership: industry, energy sector, science and education, transport and communications, service, health care, credit and financial services, government.

Graduates work as specialists in computerized control systems, data processing and programming, data protection, development and use of microcontrollers for various purposes, as administrators of computer networks, project managers, engineers, field engineers, testers of complex electronic, computer and automated equipment, as well as engineers-researchers.

The department is equipped with modern appliances.

Each student has an opportunity to work at a certain time in the labs(data transmission and telecommunications, computerized control systems and automation, electronics and microprocessor technology) and in the department’s display classes on personal computers (Pentium, Celeron), integrated into local area network, which allows him/her to study comprehensively the most modern advances in the technological industry, and work in the global computer network Internet.

after the 4th year in parallel with the main specialty students (optionally) can receive in 2 years (evening classes by the contract) qualification of manager marketer in specialty "Marketing" or bachelor interpreter

**Educational activity concept**

The basis of the educational activities of the Department relies on the concept of combining a traditional full-depth comprehensive education and professional requirements from the modern industry. To accomplish this, our students perform educational and scientific work, and participate in engineering projects of the department. This concept is being implemented by teachers of the department - professionals who have the abilities of experienced trainers, scientists and engineers.

Teaching our students by the university's plans and programs is intertwined with research activities and participation in engineering projects under the guidance of teachers of the department.

Students who want to deepen their knowledge in a widespread perspective information and communication technologies on which they plan to specialize in a future work, a number of interesting certification programs is offered.

Getting a diploma of higher education, our graduates can get 5-6 certificates from leading manufacturers of network and information technologies, equipment for the computer control systems, technologies for computer-aided design and programming.

In particular, a regional Cisco Systems network academy operates on the department’s basis - the world leader in production of networking and advanced communications technologies, where our students have the opportunity to undergo training under the CCNa program (Cisco Certified Network associate) and get a certificate in network technology of international standard. Training in Cisco Regional Networking academy (RNa) for the level of Cisco Certified Network associate (CCNa ™) allows you to work with any network comprising any equipment of any world-wide manufacturers. Each student in the classroom in RNa is individually registered in a training center for Cisco Europe and performs practical lessons in on-line mode under the supervision of the center and an instructor in the RNa classroom. During these sessions, students significantly improve their theoretical knowledge and practical skills in English in the professional area.

With successful completion of the exam (3 attempts are given) student receives a personal license certificate of CCNa ™qualification, which guarantees a prestigious high-paying jobs in computer networking area.

In addition, each student can participate in the study programs to further certify in such tools and technologies: Rational Rose (design technology software); operating systems UNIX, LINUX; SCaDa-systems; systems programming; Internet-providing; the world's leading manufacturers of controllers (Siemens, Schneider, ...).