

### IGOR SIKORSKY KPI - IT IS ALWAYS:

- HIGH QUALITY TRAINING OF SPECIALISTS
- INTERNATIONAL STANDARDS OF EDUCATION
- RELEVANT-TIME KNOWLEDGE AND SKILLS
- FUNDAMENTAL SCIENTIFIC TECHNICAL RESEARCH

# INFORMATION PACKAGE

NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE"

Kyiv, 2021

## CONTENT

1.	A COMMON DESCRIPTION OF IGOR SIKORSKY KPI3
2.	TRAINING AND SCIENTIFIC INSTITUTE FOR APPLIED SYSTEM ANALYSIS (IASA)
4.	TRAINING AND SCIENTIFIC INSTITUTE OF TELECOMMUNICATION SYSTEMS (ITS)
5.	TRAINING AND SCIENTIFIC INSTITUTE OF MECHANICAL ENGINEERING (IME)7
6.	TRAINING AND SCIENTIFIC INSTITUTE OF AEROSPACE TECHNOLOGIES (IAT)
7.	TRAINING AND SCIENTIFIC INSTITUTE OF PHYSICS AND TECHNOLOGY (IPT)9
8.	TRAINING AND SCIENTIFIC INSTITUTE OF ENERGY SAVING AND ENERGY MANAGEMENT (IESEM) 10
9.	TRAINING AND SCIENTIFIC PUBLISHING AND PRINTING INSTITUTE (PPI)11
10	. TRAINING AND SCIENTIFIC Ye.O. PATON INSTITUTE OF MATERIAL SCIENCE AND WELDING (IMSW) 12
11	. FACULTY OF CHEMICAL ENGINEERING
12	. FACULTY OF CHEMICAL TECHNOLOGY (FCT)

13. FACULTY OF THERMAL POWER ENGINEERING (FTPE)15
14. FACULTY OF ELECTRIC POWER ENGINEERING AND AUTOMATICS (FEPEA)16
15. FACULTY OF INFORMATICS AND COMPUTER SCIENCE (FICS)
16. FACULTY OF BIOMEDICAL ENGINEERING (FBE)18
17. FACULTY OF APPLIED MATHEMATICS (FAM)19
18. FACULTY OF PHYSICS AND MATHEMATICS (FPM) 20
19. RADIO ENGINEERING FACULTY (REF)21
20. FACULTY OF ELECTRONICS (FEL)
21. FACULTY OF INSTRUMENTATION ENGINEERING (FIE)
22. FACULTY OF MANAGEMENT AND MARKETING (FMM)
23. FACULTY OF BIOTECHNOLOGY AND BIOENGINEERING (FBB)26
24. FACULTY OF LINGUISTICS (FL)
25. FACULTY OF SOCIOLOGY AND LAW (FSL)27

## 1. A COMMON DESCRIPTION OF THE IGOR SIKORSKY KPI

The National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" is the largest Ukrainian University and one of the largest technical universities in Europe. University has been working and developing since 1898 as a campus, where the environment for learning, recreation, sports and personal hobbies of all 25,000th team organically integrated at the area of 160 hectares. During its existence, Igor Sikorsky KPI has prepared more than 380 thousand engineers.

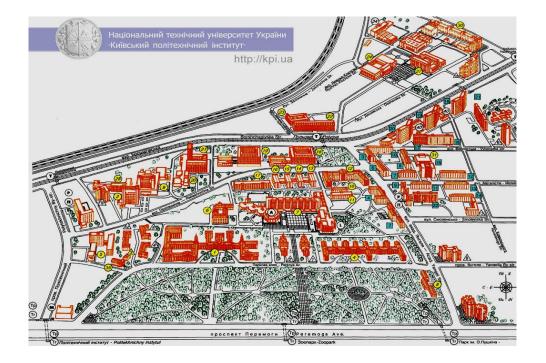


The University consists of: 8 educational and scientific instituts, 16 faculties, Joint Ukrainian-German faculty of mechanical engineering, several research institutes and scientific centers, design bureaus and other institutions

**STATUS:** The University is a national autonomous state higher educational institution of research type, accredited with the status of a higher educational institution of the IV level and has the right to carry out educational activities aimed at training bachelors, masters, doctors of philosophy (Ph.D.) and doctors of Sciences.

**INTERNAL RESOURCES.** The university has a preparatory department, where foreign students study subjects to the extent necessary for the further mastering of the university program. The University has its own publishing and printing complex "Polytechnic". Among the teachers of Igor Sikorsky KPI, there are more than 500 professors, 1,300 associate professors. Classrooms and laboratories are equipped with modern devices, the latest learning technologies with the use of computer networks are implemented. All this allows us to provide the quality of education, which level corresponds to the standards of the best universities abroad.

**INTERNATIONAL COLLABORATION:** The Igor Sikorsky KPI actively participates in international educational, scientific projects and programs, successfully cooperates with 47 countries, has 32 joint structures with universities partners, leading international companies (EC, CU, UNDP, UNESCO, UNIDO, WIPO, NATO, EDNES, ICSU, CODATA) and well-known companies (MOTOROLA, SIEMENS, FESTO, SAMSUNG, INTEL, etc.). The University was also the initiator of the creation of "Center of Supercomputer Calculations and Data" in Ukraine.



*GOAL:* Today, the main goal of the Igor Sikorsky KPI is the training of highly qualified specialists and to do research for "breakthrough" in such Ukraine's economic development priorities:

- Modern technology in the field of computer science, mechanical engineering, chemistry and materials science;
- Information networks and information communication technologies;
- The problem of energy saving and the development of energysaving technologies;
- Monitoring and protection of the environment;
- Elimination of the consequences of nuclear and man-made disasters;
- Space and aviation technologies;
- The exploration and use of human resources;
- Medical Engineering;
- Systems analysis and decision making.

### **TERMS OF TRAINING:**

Bachelor's program – 4 years; Master's program: *Educational-Professional Program* – 1.5 year, *Educational-Scientific Program* – 2 years;

PhD – 4 years

## 2. TRAINING AND SCIENTIFIC INSTITUTE FOR APPLIED SYSTEM ANALYSIS (IASA)

### 1. A common description of specialists

**IASA** trains specialists in information technology, systems analysis, and intelligent decision-making system. Graduates are able to design, build and maintain computer systems for analysis, forecasting, prediction and dynamic processes in the macroeconomic, technical, physical, environmental and financial complex systems.

**Graduates** are working on the positions of systems analysts, managers of information systems development, project managers, engineers of computer systems and networks in public and commercial manufacturing enterprises, banks, and stock exchanges both in Ukraine and abroad.

### 2. Contact information

Research Adviser: Prof., Dr. of Tech. Sci., Academician of NASU, Mykhailo Z. Zgurovsky, Director of the Institute: Prof., Dr. of Phys.-Math. Sci., Pavlo O. Kasyanov Address: 37, Prosp. Peremohy, Ed. Building No 35, Kyiv, 03056, Ukraine Phones: +380 44 204-84-79, +380 44 204-81-40 e-mail: <u>ipsa@kpi.ua; Kasyanov@i.ua</u> Official website: <u>http://iasa.kpi.ua/</u>

### 3. Educational Programs

Specialty	Name of the Educational	Levels of higher education		cation
opeolary	Program	First	Second	Third
	Data Mining and		Master EPP	
	Geoinformatics	_	Master ESP	_
	Systems and Methods of Artificial Intelligence Intellectual Service- Oriented Distributed Computing	Bachelor	Master EPP	_
Computer Science		EPP	Master ESP	
Ocience		Bachelor EPP	Master EPP	
			Master ESP	—
	Computer Science	-	-	PhD
	System Analysis	Bachelor EPP	Master EPP	_
System	and Control		Master ESP	
Analysis	Systems Analysis of	_	Master EPP	_
	Financial Market	_	Master ESP	
	System Analysis	_	_	PhD

## 4. TRAINING AND SCIENTIFIC INSTITUTE OF TELECOMMUNICATION SYSTEMS (ITS)

#### 1. A common description of specialists

**Specialists-graduates are able** to design a network for transferring large flows of information at high speed, to solve the routing problem of these flows, to provide high-quality data, manage and synchronize communications network as a whole and each of its particular link, use digital systems and intelligent computer technology.

The Institute graduates focused on the research and development of practical software and hardware of the latest means of communication and information technologies. This system of information transmission on an optical fiber, radio, radio relay, and cable lines as well as digital switching systems, multi-purpose, telecommunication network and information security to them.

#### 2. Contact information

Director of Institute: Prof., Dr. of Tech. Sci., Academician of NASU Mykhailo Yu. Ilchenko Address: 2 Industrialny Lane, Ed. Building No 2, Kyiv, 03056, Ukraine Phone: +380 44 204 91 21 e-mail: <u>its@kpi.ua</u> Official website: <u>its.kpi.ua</u>

Specialty	Name of the Educational	Levels of higher education			
	Program	First	Second	Third	
	Electronic Communication	Bachelor	Master EPP	_	
	Systems and Networks	EPP	Master ESP	-	
	Information and Communication	Bachelor	Master EPP		
Telecommunications and Radio	Technologies	EPP	Master ESP	-	
Engineering	Engineering and Programming	Bachelor	Master EPP	_	
	Infocommunications	EPP	Master ESP	_	
	Telecommunications and Radio Engineering	_	_	PhD	

3. Educational Programs

## 5. TRAINING AND SCIENTIFIC INSTITUTE OF MECHANICAL ENGINEERING (IME)

#### 1. A common description of specialists

The Institute trains specialists of machine-building complex, who are able to create advanced technological processes, designing the technological complexes, operate and explore them on the basis of computer systems design, information processing and logistical management, to perform international patent licensing activity, product certification and quality systems, to make effective economically reasonable technical decisions using methods of mathematical modeling and computer synthesis.

**Graduates work** in research, design institutes, industrial enterprises of machine-building, electronic, aerospace and other industries where they occupy leading positions.

### 2. Contact information

**Director of the Institute**: Prof., Dr. of Tech. Sci., Mykola I. Bobyr.

Address: 37, Prospect Peremohy, Ed. Building No 1, Kyiv, 03056, Ukraine Phone: +380(44) 204-94-55, 204-80-02 e-mail: mmi@kpi.ua Official website: mmi.kpi.ua

Chacialter	Name of the	Levels of higher education		ation
Specialty	Educational Program	First	Second	Third
	Dynamics and	Bachelor	Master EPP	
	Strength of Machines	Strength of Machines EPP	Master ESP	_
	Manufacturing	Bachelor	Master EPP	
	Engineering	EPP	Master ESP	_
	Aircraft Manufacturing	Bachelor	Master EPP	_
	Technologies	EPP	Master ESP	
	Engineering Design	Bachelor EPP	Master EPP	_
	Tool Systems		Master ESP	
Applied Mechanics	Technology of Computer Design of	Bachelor EPP	Master EPP	_
	Machines and Robots		Master ESP	
	Automated and	_	Master EPP	
	Robotic Mechanical Systems		Master ESP	-
	Artificial Intelligence and Robotics in Mechanical Engineering	-	Master ESP	_
	Applied Mechanics	-	-	PhD ESP

3. Educational Programs

## 6. TRAINING AND SCIENTIFIC INSTITUTE OF AEROSPACE TECHNOLOGIES (IAT)

#### 1. A common description of specialists

Throughout their studies, students receive education at the level of the best universities in the world. Graduates have fundamental knowledge in the design, creation and operation of new aerospace and rocket and space equipment using modern software, hardware, computer and computerized systems and information technologies of design, both special and general purpose, for various branches of science and industry.

**Graduates work** as researchers, design engineers and programmers in rocket and space and aviation companies, enterprises involved in the creation and operation of aircraft, electronic equipment, automated systems and sensors.

#### 2. Contact information

Director of the Institute: Prof., Dr. of Tech. Sci., Ivan V. Korobko. Address: 1, Botkina Street, Ed. Building No 28, Kyiv, 03056, Ukraine Phones: +38(044) 204-96-66, +38(096) 313-37-38 e-mail: iat@kpi.ua, iatd@kpi.ua Official website: iat.kpi.ua

#### 3. Educational Programs

Specialty	Name of the Educational	Levels	cation	
opeolary	Program	First	Second	Third
	Airplanes and	Bachelor	Master EPP	_
	Helicopters	EPP	Master ESP	
Aviation and	Aerospace and Rocket	Bachelor	Master EPP	
Aerospace Technologies	Systems EPP Engineering	EPP	Master ESP	_
	Aviation and Aerospace Technologies	-	_	PhD
Avionics	Control Systems of Flight Vehicles	Bachelor	Master EPP	PhD
	and Complexes Engineering	EPP	Master ESP	

## 7. TRAINING AND SCIENTIFIC INSTITUTE OF PHYSICS AND TECHNOLOGY (IPT)

#### 1. A common description of specialists

**The Institute prepares** specialists on contemporary topics of applied mathematics, physics, computer science, and information security. According to numerous responses of employers, the Institute serves its purpose of training elite level for science and high-tech industries of Ukraine. Graduates have defended more than 50 theses (one in six graduate master's degree) in mathematics, physics, Informatics in Ukraine, Europe, USA, Canada.

**Institute graduates work** in research institutes of Ukraine and foreign countries, public authorities of Ukraine, knowledgebased institutions and companies, public and private forms of ownership, where the main requirements for employees with high intelligence, deep knowledge, ability to work in conditions of fierce intellectual competition, international corporations and their representative offices in Ukraine, in foreign universities.

The majority of graduates works in Ukraine and holds the positions of leading experts – scholars, analysts, experts, and developers.

### 2. Contact information

Director of Institute: Prof., Dr. of Tech. Sci., Oleksii M. Novikov

Address: 37, Prospect Peremohy, Ed. Building No 1, Kyiv, 03056, Ukraine Phones: +380 44 236 7098, +380 44 204 9875 e-mail: <u>litv@pti.kpi.ua</u> Official website: http://pti.kpi.ua

### 3. Educational Programs

Specialty	Name of the Educational	Levels of higher education		
openany	Program	First	Second	Third
Applied Physics and Nanomaterials	Applied Physics	Bachelor EPP	Master ESP	PhD
	Systems of		Master EPP	
	Technical Protection of Information	Bachelor EPP	Master ESP	-
Cyber Security	Systems, Technologies	Bachelor <i>EPP</i>	Master EPP	
	and Mathematical Methods of Cyber Security		Master ESP	_
	Cyber Security	-	-	PhD <i>ESP</i>
	Mathematical Methods of	Bachelor	Master EPP	_
	Cryptographic Security	EPP	Master ESP	
Applied Mathematics	Applied	Bachelor	Master EPP	_
	Mathematics	EPP	Master ESP	
	Applied Mathematics	_	_	PhD <i>ESP</i>

## 8. TRAINING AND SCIENTIFIC INSTITUTE OF ENERGY SAVING AND ENERGY MANAGEMENT (IESEM)

#### 1. A common description of specialists

The Institute trains specialists for the electricity and fuel and energy complexes, the construction of urban underground construction and environmental protection, who are able to develop, design and operate energy facilities and systems, to create a modern system of eco-energy management, working with modern energy-saving technologies.

Institute graduates work at enterprises and organizations of different industries of Ukraine, CIS countries, Asia, Europe, and America as experts on energy efficiency, energy auditors and inspectors in the energy sector, leaders, leading experts of structural divisions of enterprises and organizations of electric power industry Energy, leading experts of the mining industry, construction, and operation of urban underground structures, for monitoring facilities providing consulting and engineering services.

### 2. Contact information

Director of Institute: Prof., Dr. of Tech. Sci., Sergii P. Denisyuk

Address: 115, Borschagivska Street, Ed. Building No 22, Kyiv, 03056, Ukraine Phones: +380 44 204 85 14 e-mail: iee@iee.kpi.ua Official website: iee.kpi.ua

Specialty	Name of the	Levels of higher education			
Specialty	Educational Program	First	Second	Third	
	Energy Management and Energy Efficient	Bachelor	Master EPP		
	Technologies	EPP	Master ESP	-	
	Electric Power Distribution Systems	Bachelor	Master EPP		
Electric Power Engineering,	Engineering	EPP	Master ESP		
Electrotechnics, and Electromechanics	Engineering of Intelligent Electrotechnical and	Bachelor	Master EPP	_	
	Mechatronic Complexes	EPP	Master ESP		
	Electric Power Engineering, Electrotechnics, and Electromechanics	_	_	PhD ESP	
	Energy Management	Bachelor	Master EPP		
Thermal Power Engineering	and Energy Efficient Technologies	EPP	Master ESP	_	
	Thermal Power Engineering	-	_	PhD ESP	
Mining	Geoengineering	Bachelor	Master EPP	PhD	
	Geoengineening	EPP	Master ESP	ESP	

Comment: EPP – Educational-Professional Program

ESP – Educational-Scientific Program

### 3. Educational Programs

## 9. TRAINING AND SCIENTIFIC PUBLISHING AND PRINTING INSTITUTE (PPI)

### 1. A common description of specialists

The Institute carries out training of highly qualified process engineers, system integrators, engineers, experts in the management of production, marketing market of printed products and printing materials production, editors, graphic artists, designers, and packaging media for publishing and printing industry.

**Graduates of the Institute work** at printing companies, publishing houses, and other organizations that produce printed products by traditional and special types of printing, as well as research and design institutes, which are scientific and technical developments in the field of printing and engineering, development and synthesis of basic materials.

### 2. Contact information

Director of Institute: Prof., Dr. of Tech. Sci, Petro P. Kirichok Address: 1/37 Yangel Street, Ed. Building No 8, Kyiv, 03056, Ukraine, Phones: +380(44) 204-83-61, 204-97-69 e-mail: vpi\_ntuu\_kpi@ukr.net; Official website: vpi.kpi.ua

### 3. Educational Programs

Specialty	Name of the Educational	Levels of higher education		
opecially	Program	First	Second	Third
Fine Arts, Decorative Arts, Restoration	Fine Arts	Bachelor EPP	Master EPP	-
	Publishing and	Bachelor	Master EPP	_
Journalism	Editing	EPP	Master ESP	
	Advertising and	Bachelor EPP	Master EPP	
	Public Relations		Master ESP	_
	Social Communications, Journalism	_	-	PhD ESP
	Computerized	Bachelor	Master EPP	
Industrial	Printing Systems	EPP	Master ESP	-
Machinery Engineering	Industrial Machinery Engineering	-	-	PhD ESP
	Technologies of	Bachelor	Master EPP	
Publishing	Printing and Electronic Editions	EPP	Master ESP	_
and Printing	Publishing and Printing	_	_	PhD ESP

## **10.TRAINING AND SCIENTIFIC Ye.O. PATON INSTITUTE OF MATERIAL SCIENCE AND WELDING (IMSW)**

#### 1. A common description of specialists

**Institute trains** highly qualified professionals for the development of new materials (alloys, composite, polymer, ceramic and metal-ceramic materials), high-end technologies for their production, research and management of properties, process automation with the use of modern computer and information technology, technologies for obtaining integral joints and surface engineering.

**Graduates of the institute work** in research centers and institutes of the National Academy of Sciences of Ukraine, branch research and design institutes, industrial enterprises in almost all industries that produce parts and functional elements for devices, machines, and mechanisms from composite materials, metals, and alloys.

### 2. Contact information

Faculty Dean: Dr. of Tech. Sci., Assoc. Prof., Yuri M. Sydorenko Address: 35 Polytechnichna Street, Ed. Building No 9 Kyiv, 03056, Ukraine Phones: +380 44 204 8215, +380 44 204 9156 e-mail: imz@kpi.ua Official website: http://imz.kpi.ua/en

Specialty	Name of the	Levels of higher educ		cation
Specialty	Educational Program	First	Second	Third
	Laser Technology and Computer-Based	Deckeler	Master EPP	
	Process of Physicotechnical Materials Treatment	Bachelor EPP	Master ESP	
Applied	Welding Technology	Bachelor EPP	Master EPP	_
Mechanics	and Engineering		Master ESP	
	Technological Systems	Bachelor <i>EPP</i>	Master EPP	
	of Joints and Surfaces Engineering		Master ESP	
	Applied Mechanics	_	-	PhD <i>ESP</i>
Materials Science	Engineering and	Bachelor	Master EPP	
Science	Computer Modelling in Materials Science	EPP	Master ESP	
	Nanotechnology	Bachelor	Master EPP	_
	and Computer-Aided Materials Design	EPP	Master ESP	
	Materials Science	_	-	PhD ESP
	Computer-Based	Bachelor	Master EPP	_
Metallurgy	Casting Processes	EPP	Master ESP	
	Metallurgy	_	-	PhD ESP

Comment: EPP – Educational-Professional Program

## **11. FACULTY OF CHEMICAL ENGINEERING**

### 1. A common description of specialists

The Faculty provides training of specialists in the field of mechanical engineering, resource saving, ecology and computerintegrated technologies that allow you to design, explore and exploit technological processes, equipment and management systems, chemical and oil refining industries, enterprises of building materials, pulp and paper production, processing plants polymers, environmental protection institutions.

**Graduates of the faculty work** as development project managers and leading specialists of the operating processes, equipment, control systems and software on different forms of ownership.

### 2. Contact information

Faculty Dean: Prof., Dr. of Tech. Sci., Evgen N. Panov Address: 39 Polytechnichna Street, Ed. Building No 19, Kyiv, 03056, Ukraine,

Phones: +380 204-80-62 e-mail: ecf@kpi.ua , panov@kpi.ua official site: <u>ihf.kpi.ua/</u>

### 3. Educational Programs

Specialty	Name of the Educational			
Specialty	Program	First	Second	Third
	Automation	Bachelor	Master EPP	
Automation	Hardware and Software	EPP	Master ESP	_
and Computer- Integrated Technologies	Automation and Computer- Integrated Technologies	_	_	PhD ESP

Chemical Technologies	Industrial Ecology and Resource-Efficient Cleaner Technologies	Bachelor EPP	Master EPP Master ESP	. –
and Engineering	Chemical Technologies and Engineering	_	_	PhD ESP
Ecology	Environmental Safety	Bachelor	Master EPP	
		EPP	Master ESP	
	Ecology	_	_	PhD ESP
	Computer-Aided Design	Bachelor	-	_
	of Chemical Equipment	EPP		
	Engineering and		Master EPP	
	Computer-Integrated Technologies for	_		_
Indusial Machinery Engineering	Designing Innovative		Master ESP	
	Industry Equipment			
	Engineering of Equipment for the Production of Polymer and Building Materials and Products	Bachelor <i>EPP</i>	-	_
	Engineering and Computer-Integrated Technologies for Designing Innovative	_	Master EPP	_
	Industry Equipment		Master ESP	
	Indusial Machinery Engineering	-	_	PhD <i>ESP</i>
	Engineering of		Master EPP	
Applied Mechanics	Packaging Products, Processes, and Equipment	Bachelor <i>EPP</i>	Master ESP	
	Applied Mechanics	_	_	PhD ESP

Comment: EPP – Educational-Professional Program

ESP – Educational-Scientific Program

## **12. FACULTY OF CHEMICAL TECHNOLOGY (FCT)**

### 1. A common description of specialists

*Faculty trains* experts in various areas of theoretical and applied chemistry, who are capable to carry out research in the laboratory or large-capacity synthesis of new organic and inorganic compounds for various purposes – inhibitors of corrosion to the materials of electronics and space technology, to develop and design the modern eco-friendly chemical technology, production of chemicals, coagulants, ceramic, silicate, silicone, elastomer, plastic and many other materials, metals and coatings.

*Graduates work in the* chemical divisions of the National Academy of Sciences, industrial research institutes, companies of chemical and related profile, government institutions, chemical and allied industries, sanitary and epidemiological service, institutions of environmental inspection and monitoring, scientific and technical divisions of public law enforcement agencies, stations of drinking water and wastewater treatment

### 2. Contact information

Faculty Dean: Prof., Dr. of Tech. Sci., Olga V. Liniucheva
Address: 37, Prospect Peremohy, Ed. Building No 3, Kyiv, 03056, Ukraine
Phone: +380 44 236 97 74, +380 44 204 82 11
e-mail: office.xtf@kpi.ua, sec@xtf.kpi.ua
Official website: http://xtf.kpi.ua

3. Educational Programs

Specialty	Name of the	Levels of higher education		
Specially	Educational Program	First	Second	Third
	Chemical Technology of Organic Substances	Bachelor EPP	_	_
	Chemistry and		Master EPP	
	Technology of Organic Substances	_	Master ESP	-
	Chemical Technology of Inorganic Substances and Water Treatment	Bachelor EPP	_	_
	Chemical Technologies		Master EPP	
	of Inorganic, Electrode Materials and Water Treatment	-	Master ESP	-
Chemical Technologies and Engineering	Electrochemical Technologies of Organic and Inorganic Materials	Bachelor EPP	_	_
	Chemical Technologies of Inorganic Ceramic Materials	Bachelor EPP	-	_
	Chemical Technologies of Inorganic and Organic Binders and	Bachelor EPP	Master EPP	_
	Composition Materials		Master ESP	
	Chemical Technologies	Bachelor	Master EPP	
	of Cosmetic Products and Food Additives	EPP	Master ESP	-
	Chemical Technologies and Engineering	_	-	PhD ESP

## 13. FACULTY OF THERMAL POWER ENGINEERING (FTPE)

#### 1. A common description of specialists

The faculty trains specialists in the field of thermal and nuclear power engineering, research and automation of heat and power processes, computer technologies in the energy sector which are capable to design, operate, adjust power equipment of thermal and nuclear power plants (TPP and NPP), industrial plants, advanced computerized systems for control and management of energy complex enterprise.

**Graduates are working** in engineering and management positions of power units of industrial plants, thermal power plants and nuclear power plants, design and research institutes of National Academy of Sciences of Ukraine, as administrators of information and computer systems and networks in the public, private, academic, industrial establishments and firms

### 2. Contact information

Faculty Dean: Prof., Dr. of Tech. Sci., Evgen M. Pysmennyi Address: 6, Politechnichna Street, Ed. Building No 5, Kyiv, 03056, Ukraine Phones: +380 44 204 99 04 e-mail: tef@kpi.ua Official website: http://tef.kpi.ua/

### 3. Educational Programs

Createlty	Name of the Educational	Levels of higher education		
Specialty	Program	First	Second	Third
Automation	Automation and Computer-Integrated	Bachelor	Master EPP	
and Computer Integrated	Technologies of Cyber- Energy Systems	EPP	Master ESP	_
Technologies	Automation and Computer Integrated Technologies	_	_	PhD ESP

	Engineering and Computer Technology of	Bachelor	Master EPP	
Power Machinery	Thermal Power Systems	EPP	Master ESP	
	Power Machinery	_	_	PhD ESP
	Nuclear Power Plants	Bachelor	Master EPP	
	Nuclear Fower Flams	EPP	Master ESP	_
Nuclear Power Engineering	Physical Protection, Accounting, and Control of Nuclear Materials	-	Master EPP	-
	Nuclear Power Engineering	-	-	PhD ESP
	Thermal Power Engineering and Thermal	Bachelor	Master EPP	
Thermal Power Engineering	Power Installations of Power Plants	EPP	Master ESP	
	Thermal Power Engineering	_	-	PhD ESP
	Software Engineering of Intelligent Cyber-Physical	Bachelor	Master EPP	
Software Engineering	Systems and Web Technologies	EPP	Master ESP	_
	Software Engineering	-	-	PhD ESP
	Computer Monitoring and Geometric Modelling of	Bachelor	Master EPP	
Computer Science	Processes and Systems	EPP	Master ESP	
	Computer Science	-	-	PhD ESP
Comment: EPP – Educational-Professional Program				

ESP – Educational-Scientific Program

## 14. FACULTY OF ELECTRIC POWER ENGINEERING AND AUTOMATICS (FEPEA)

### 1. A common description of specialists

The Faculty trains specialists, who are capable of developing, designing and operating modern electric power and electromechanical systems, managing the process of electric power enterprises and their automation based on widespread use of information and computer systems.

**FEPEA graduates work on the positions** of heads and leading specialists of structural units of power supply companies and power systems, research and design organizations, electrical industrial institutions of various forms of ownership in Ukraine and abroad. The best graduates can continue their education in graduate school to obtain a scientific degree.

## 2. Contact information

Faculty Dean: Prof., Dr. of Tech. Sci., Oleksander S. Yandulskyi Address: 37, Polytechnichna Street, Ed. Building No 20, Kyiv, 03056, Ukraine Phones: +38(044) 204-93-07, 204-92-39 e-mail: fea@kpi.ua Official website: fea.kpi.ua

## 3. Educational Programs

Specialty	Name of the	Levels of higher education		
Specialty	Educational Program	FirstSecondThirdBachelorEPP-EPPMaster-		
Electric Power Engineering,	Electrical Machines	Bacholor		
Electrotechnics, and Electromechanics	and Apparatus		Master ESP	_

	Control, Protection, and	Bachelor	Master EPP	
	Automation of Electric Power Systems	EPP	Master ESP	_
	Electromechanical Automation Systems,	Bachelor	Master EPP	
	Electrical Drive, and Electromobility	EPP	Master ESP	-
	Electrical Systems and Networks	Bachelor	Master EPP	
Electric Power Engineering,		EPP	Master ESP	_
	Power Plants	Bachelor EPP	Master EPP	
Electrotechnics, and Electromechanics			Master ESP	
Electromechanics	Alternative and Renewable Sources of Energy	Bachelor	Master EPP	
		EPP	Master ESP	_
	Electrotechnical Devices	Bachelor	Master EPP	
	and Electrotechnological Systems	EPP	Master ESP	
	Electric Power Engineering, Electrotechnics, and Electromechanics	_	_	PhD ESP

## **15. FACULTY OF INFORMATICS AND COMPUTER SCIENCE (FICS)**

### 1. A common description of specialists

The faculty trains qualified experts in the development and operation of software and hardware of the computer and computerized systems and networks, the introduction of modern information technologies of general and designated purpose for various branches of science and industry. They are capable of creating and maintaining computer systems and computerized data processing and management of organizational and technical facilities.

**Graduates work** as managers and developers of hardware and software systems, project managers, managers of informational, computer and computerized systems and networks in the public and private scientific, industrial, banking institutions and firms.

### 2. Contact information

Faculty Dean: Prof., Dr. o. Sci., Serhii F.Telenyk

Address: 41, Polytechnichna Street, Ed. Building No 18, Kyiv, 03056, Ukraine

*Phones:* +380 44 236 19 70, +38 044 204-90-34 *e-mail*: <u>fiot@kpi.ua</u>

Official website: http://fiot.kpi.ua

	Name of the	Levels of	higher edu	cation
Specialty	Educational Program	First	Second	Third
Software Engineering	Computer Systems Software Engineering	Bachelor EPP	Master EPP Master ESP	_
	Software Engineering	_	_	PhD ESP
Computer Engineering	Computer Systems and Networks	Bachelor <i>EPP</i>	Master EPP Master ESP	_
	Computer Engineering	_	_	PhD ESP
	Integrated Information Systems and Technologies	Bachelor EPP	Master EPP Master ESP	_
Information Systems and	Dataware of Robotic Systems	Bachelor <i>EPP</i>	Master EPP Master ESP	_
Technologies	Integrated Management Information Systems	Bachelor EPP	Master EPP Master ESP	_
	Integrated Information Systems	_	-	PhD ESP

Comment: EPP – Educational-Professional Program ESP – Educational-Scientific Program

### 3. Educational Programs

## **16. FACULTY OF BIOMEDICAL ENGINEERING (FBE)**

#### 1. A common description of specialists

The Faculty trains specialists in the modern sections of biomedical engineering, medical and biological informatics and cybernetics, physical rehabilitation.

FBE students undergo practical training at leading academic institutions, clinical hospitals, and manufacturing facilities in Ukraine and abroad. Graduates of the faculty work both in Ukraine and abroad, occupying the post of leading experts - biomedical engineers, software developers, and scientists.

The basic concept of the faculty is that the subjects of study combine engineering, information and medical biology. Students are offered, in addition to the usual and accepted disciplines at the Technical University, the study of Latin and medical terminology, mathematical modelling of physiological systems, telemedicine, medical instrumentation, Development of manmade biological objects, biomaterials and more

### 2. Contact information

Faculty Dean: Prof., Dr. of Med. Sci., Vitalii B. Maksymenko
Address: 16/2, Yangel street, 5-th floor of Polyclinic Department, Kyiv, 03056, Ukraine
Phones: +38(044) 204-85-74, +38(044) 204-96-84
e-mail: mmif@kpi.ua
Official website: fbmi.kpi.ua

#### 3. Educational Programs

Crecielty	Name of the	Levels of I	nigher edu	ucation
Specialty	Educational Program	First	Second	Third
	Medical engineering	Bachelor EPP	Master EPP Master ESP	
Biomedical engineering	Regenerative and Biopharmaceutical Engineering	Bachelor EPP	Master EPP	_
	Biomedical engineering	_	_	PhD ESP
Computer science	Computer technologies in biology and medicine	Bachelor EPP	Master EPP Master ESP	_
	Computer science	_	_	PhD ESP
Physical	Physical Therapy	-	Master EPP	_
Therapy, Ergotherapy	Physical Therapy, Ergotherapy	Bachelor EPP	-	PhD ESP

## **17. FACULTY OF APPLIED MATHEMATICS (FAM)**

### 1. A common description of specialists

The Faculty trains specialists in the area of information technologies, the design of operating systems, development of the system and applied software, the design of automation systems, scientific research, expert systems, development and use of computer systems and general purpose networks, specialized computer systems and networks with optimized parameters, protection of information in computer systems, local and distributed computing systems.

**Graduates of the faculty work** in institutes of the National Academy of Sciences of Ukraine, sectoral research institutes, organizations and enterprises that are engaged in the development and implementation of mathematical methods, computer and software systems, and other software and hardware automation of information, production, design and research processes, providing information technologies, protection of information, etc.

### 2. Contact information

Faculty Dean: Prof., Dr. of Technics, Ivan A. Dychka

Address: 14-a, Polytechnichna Street, Ed. Building No 14, Kyiv, 03056, Ukraine Phones: +380 44 204 81 15, +380 44 204 91 13 e-mail: fpm@ntu-kpi.kiev.ua Official website: http://fpm.kpi.ua

Specialty	Name of the Educational	Levels of higher education		
opeelally	Program	First	Second	Third
	Data Science and Mathematical	Bachelor	Master EPP	_
Applied Mathematics	Modelling	EPP	Master ESP	
	Applied Mathematics	-	-	PhD ESP
Computer Engineering	System Programming and Specialised Computer Systems	Bachelor	Master EPP	_
		EPP	Master ESP	
	Computer Engineering	_	_	PhD ESP
Software Engineering	Software Engineering of Multimedia and	Bachelor	Master EPP	_
	Information Retrieval Systems	EPP	Master ESP	
	Software Engineering	_	_	PhD <i>ESP</i>

### 3. Educational Programs

## **18. FACULTY OF PHYSICS AND MATHEMATICS (FPM)**

#### 1. A common description of specialists

**Faculty trains specialists** in fundamental and applied problems in various branches of modern physics – from aerodynamics and hydrodynamics to nuclear physics and elementary particles with the use of the methods of mathematical and computer modeling, as well as in analysis and forecasting of economic activity of the subjects of market economics.

Graduates of the Faculty are working as the specialists in the field of nanotechnology, solid state physics, chaos theory and nonlinear phenomena, astrophysics, information technologies in physics, software developers of biomedical processes description, the developers of the methods of quantum chemistry, researchers, teachers at higher education institutions, systems analysts in state and commercial institutions.

### 2. Contact information

**Faculty Dean**: Prof., Dr. of Tech. Sci., Volodymyr V. Vanin *Phones*: +38(044) 204-82-51, 204-82-43

*Address:* 37, Prospect Peremohy, Ed. Building No 7, Kyiv, 03056, Ukraine

e-mail: fmf@kpi.ua

Official website: http://fmf.kpi.ua

Specialty	Name of the Educational	Levels of	higher ed	ucation
Specialty	Program	First	Second	Third
	Actuarial and Financial	Bachelor	Master EPP	
Mathematics	Mathematics	EPP	Master ESP	-
	Mathematics	_	_	PhD ESP
	Computer	Bachelor	Master EPP	
Physics and Astronomy	Modelling of Physical Processes	EPP	Master ESP	-
	Physics and Astronomy	-	_	PhD ESP
Applied Mechanics	Applied Mechanics	_	_	PhD ESP
Computer Sciences	Computer Sciences	_	_	PhD <i>ESP</i>

#### 3. Educational Programs

## **19. RADIO ENGINEERING FACULTY (REF)**

#### 1. A common description of specialists

Radio Engineering Faculty prepares highly skilled professionals capable of working efficiently at all stages of design and manufacturing of modern electronic devices and systems: satellite communication (GPS, GLONASS, Galileo, VSAT) and mobile (GSM, CDMA); wired (including optical lines) and wireless computer networks (Wi-Fi, Bluetooth); television and telecommunications systems (WiMAX, LTE, DVB-T2) special communication systems; microprocessor and computer control systems for domestic and industrial purposes; biotechnical and medical diagnosis and treatment systems; robotics and mechatronic systems.

Students of the Faculty successfully complete the practice and work at enterprises not only in Ukraine but also abroad. Our graduates can be found in manufacturing plants: "Quasar", "Quantum", "the Kiev factory" Radar", "Holding Company Ukrspetstechnika", "NPP "Kvant-Efir", "Romsat", "Arsenal", "UkrNDIRA", "Beam "and others. Also, our graduates work in most companies, satellite, and mobile communications, and Internet service providers: Lifecell, Kyivstar, Lanet, Volya, Freshtel, etc; in radio and television companies: STB, 1+1, Inter, KGTRK, and others; in research institutes and various medical institutions of Ukraine. Traditionally, our graduates interested SBU SVRU, Interior Ministry, State Customs Service and other government agencies that have special departments of technical control and maintenance. Most graduates work in foreign companies and their Ukrainian representative offices: Ericsson, Melexis, Luxsoft, Infineon Technologies, National Instruments, Cisco Systems, and others.

#### 2. Contact information

Dean: Ph. D., Associate Prof. Ruslan V. Antipenko
Address: 12, Polytechnichna Str., Ed. Build. 17, Room 423, Kyiv, 03056, Ukraine,
Phones:+380-44-204-92-93, +380-44-362-83-42;
e-mail: r.anti@ukr.net
Official website: rtf.kpi.ua

#### 3. Educational Programs

Specialty	Name of the Educational	Leve	er	
	Program	First	Second	Third
	Information and Communication	Bachelor	Master EPP	
	Radioengineering	EPP	Master ESP	
	Information and Communication Radioengineering	Bachelor	Master EPP	_
Telecommunications and Radio		EPP	Master ESP	
Engineering	Intelligent Technologies of	Bachelor	Master EPP	
	Radioelectronic Equipment	EPP	Master ESP	-
	Telecommunications and Radio Engineering	_	_	PhD ESP

## 20. FACULTY OF ELECTRONICS (FEL)

### 1. A common description of specialists

**Faculty trains specialists** in the field of nanoelectronics, biomedical electronics, acoustic, and acoustoelectronics, data processing and telecommunication systems, power and industrial electronics, which surely possess advanced computer design technology, develop and operate electronic appliances, devices, and systems for various applications.

#### Graduates of FEL are fluent in:

- modern computer technology design, develop and operate;
- electronic and acoustic instruments,
- multipurpose devices and systems.

### 2. Contact information

Dean: Prof., Dr. of Tech. Sci., Valerii Ya. Zhuikov

Address: 16/9, Acad. Yangel Street., Ed. Building No 12, Kyiv, 03056, Ukraine Phone: +380 44 204 94 32, +380 44 204 86 27, e-mail: fel@kpi.ua Official website: http://fel.kpi.ua

### 3. Educational Programs

Specialty	Name of the Educational	Levels of higher education		
	Program	First	Second	Third
Micro and Nanosystem	Micro- and	Bachelor	Master EPP	_
Engineering	Nanoelectronics	EPP	Master ESP	

Nanosystem Engineering	Nanosystems and Fechnologies Micro and Nanosystem Engineering	EPP _	Master ESP	_
N	•	_		
			-	PhD <i>ESP</i>
E	Electronic Components	Bachelor	Master EPP	
a	and Systems	EPP	Master ESP	
E	Electronic Devices and Equipment	Bachelor	Master EPP	_
E		EPP	Master ESP	
	Acoustic Electronic Systems and Acoustic Information Processing Technologies	Bachelor	Bachelor Master	
Ir		EPP	Master ESP	-
	Electronic Systems of	Bachelor	Master EPP	
	Multimedia and Internet of Things Technology	EPP	Master ESP	_
E	Electronics	_	_	PhD ESP
	nformation-Computing Jeans for Radio	Bachelor	Master <i>EPP</i>	_
	Electronic Systems	EPP	Master ESP	
	Telecommunications and Radio Engineering	-	_	PhD ESP

## 21. FACULTY OF INSTRUMENTATION ENGINEERING (FIE)

#### 1. A common description of specialists

**Faculty of Instrumentation Engineering** provides training in the development and maintenance of modern instruments and systems for various applications: measuring equipment of onboard complexes, diagnostic complexes of medical and General purpose, controlling devices energysaving systems.

Graduates of the faculty work at instrument-making enterprises of the aviation and space profile, enterprises to introduce energy-saving technologies, with the development and implementation of modern medical diagnostic, fitness and medical facilities, transport and printing enterprises.

Students acquire knowledge and skills of using modern methods of building high-precision devices using microprocessor and computer technology, computer-aided design systems and computer graphics.

### 2. Contact information

Faculty dean: Prof., Dr. of Tech. Sci., Grigoriy S. Tymchyk Address: 37, Prosp. Peremohy, Ed. Build. No 1, Kyiv, 03056, Ukraine, Phones: +380(44) 236-69-82, +380(44) 204-96-17 e-mail: pbf@ntu-kpi.kiev.ua Official website: pbf.kpi.ua

### 3. Educational Programs

Specialty	Name of the	Levels of	higher education	
	Educational Program	First	Second	Third
Automation and Computer- Integrated Technologies	Computer-Integrated Systems and	Bachelor EPP	Master <i>EPP</i>	_
	Technologies in Instrument Making		Master ESP	
	Automation and Computer-Integrated Technologies	_	_	PhD ESP
Metrology and Information- Measuring Technology	Information-Measuring Technologies	Bachelor EPP	Master EPP	
			Master ESP	
	Metrology and Information-Measuring Technology	_	_	PhD ESP

## 22. FACULTY OF MANAGEMENT AND MARKETING (FMM)

### 1. A common description of specialists

The faculty prepares professionals whaich are required by modern national and international business - leaders with quality economic education. Faculty trains highly qualified specialists in management, economics, and business, who are capable of making well-grounded decisions on personnel management, production management, marketing control, foreign trade activities, to ensure the effective functioning of the economy.

### 2. Contact information

Faculty Dean: Prof., Dr. of Econom. Sci., Maria O. Kravchenko Address: 37, Prosp. Peremohy, Ed. Building No 1, Kyiv, 03056, Ukraine Phone: +38 044 204 85 11, +38 044 204 96 73 e-mail: fmm@kpi.ua

Official website: http://fmm.kpi.ua

### 3. Educational Programs

	Name of the	Levels of higher education		
Specialty	Educational Program	First	Second	Third
Economics	International Economics	Bachelor EPP	Master EPP	-
	Economic Cybernetics	Bachelor EPP	Master EPP	-
	Economic of Business Enterprise	Bachelor <i>EPP</i>	Master EPP	-

Economics	Economics	-	-	PhD ESP
	Logistics	_	Master EPP	_
	Media Management and Administration of Publishing and Printing Industry	Bachelor EPP	Master EPP	_
	Management and Business Administration	Bachelor EPP	Master EPP	_
Management	Management of Investments and Innovations	– Master <i>EPP</i>		_
	Management of International Business	-	Master EPP	-
	Management in the Sphere of Military- Industrial Complex	-	Master EPP	-
	Management	_	-	PhD ESP
Marketing	Business Analytics	Bachelor EPP	_	-
	Industrial Marketing	Bachelor <i>EPP</i>	Master EPP	_
	Marketing	_	_	PhD ESP

## 23. FACULTY OF BIOTECHNOLOGY AND BIOENGINEERING (FBB)

#### 1. A common description of specialists

The Faculty provides training of highly qualified specialists to work in the most modern sectors of biotechnology: microbial synthesis of biologically active compounds, immunobiotechnology, genetic engineering biotechnology, biotechnology of pharmaceutical drugs, ecobiotechnology, bioenergetics, biodegradation of wastes, obtaining a useful substance from the biomass and wastes, biotesting of pollutions, engineering support of biotechnological and pharmaceutical productions, molecular biotechnology and bioinformatics.

Graduates of the Faculty are capable to develop and implement the latest technological processes and to design equipment for biotechnological and pharmaceutical productions, monitor and protect the environment of man-made impacts competently and scientifically, simulate biotechnological processes in order to determine the optimum conditions of biosynthesis, biodestruction of wastes and optimization of damaged ecosystems through widespread use of the most advanced mathematical methods and computer technology.

### 2. Contact information

Acting dean: Prof., Dr. of Biology, Tetiana S. Todosiichuk Address: 37 Prospect Peremohy, Ed. Building No 4, Kyiv, 03056, Ukraine

*Phones:* +38(044) 204-94-52, +38(044) 204-83-12 e-mail: <u>biotech@kpi.ua</u> *Official website:* <u>biotech.kpi.ua</u>

#### 3. Educational Programs

	Name of the	Levels of higher educatio		ucation
Specialty	Educational Program	First	Second	Third
Biotechnology and Bioengineering	Biotechnology	Bachelor EPP	Master EPP	PhD ESP
			Master ESP	
Industrial Machinery Engineering	Equipment of Pharmaceutical	Bachelor <i>EPP</i>	Master EPP	-
	and Biotechnological Productions		Master ESP	_
	Industrial Machinery Engineering	-	_	PhD ESP

## 24. FACULTY OF LINGUISTICS (FL)

### 1. A common description of specialists

During the training, students learn fundamental and professionally oriented disciplines in the field of Philology and Translation, acquire practical experience in a professional maintenance of intercultural communication representatives of native culture and cultures of the two necessarily studied languages. The program also provides training study of pedagogical disciplines that enables graduates to the teaching of foreign languages in middle and high school.

The faculty prepares highly qualified professional translators who work effectively in different sectors of the economy and business in Ukraine. Graduates of the faculty become not only highly qualified translators, but also the language teachers, both in the NTUU "KPI" and in the other organizations.

### 2. Contact information

Faculty Dean: Prof., Ph.D. in Pedagogics, Natalia S. Saenko

Address: 37, Prospect Peremohy, Ed. Building No 7, Kyiv, 03056, Ukraine Phone: +38(044) 204-94-18; +38(044) 204-80-11 e-mail: fl@kpi.ua Official website: fl.kpi.ua

### 3. Educational Programs

Specialty	Name of the Educational	Levels of	higher education		
	Program	First	Second	Third	
Philology	Germanic Languages and Literatures (Including Translation), Primary – English	Bachelor EPP	Master EPP	_	
	Germanic Languages and Literatures (Including Translation), Primary – German	Bachelor <i>EPP</i>	Master EPP	_	
	Romanic Languages and Literatures (Including Translation), Primary – French	Bachelor EPP	Master EPP	-	
	Philology	-	_	PhD ESP	

## 25. FACULTY OF SOCIOLOGY AND LAW (FSL)

#### 1. A common description of specialists

The faculty prepares specialists in management, social work, and law. Specialists of administrative management and social work are involved in the planning, organization of work, the collection and processing of information, introduction of innovations, the study of the social structure, levels and forms of life of people in different socio-cultural, regional, national conditions, the implementation of social care and protection of the population, providing skilled care to groups and individuals of various social status, age, and ethnicity. They work in the field of social planning and social policy in the organizations and institutions of all forms of ownership, as well as in public organizations.

Law students in the learning process get a thorough knowledge of the criminal, customs, administrative, civil, labor, economic, environmental, financial, and international law, intellectual property law, notaries, and arbitration proceedings. After the graduation, they are successfully working in law enforcement agencies, government bodies, the legal profession, in banks and legal services, government and commercial institutions.

### 2. Contact information

Faculty Dean: Associate Prof., Ph.D., Yana Yu. Tsymbalenko

*Address:* 37, Prosp. Peremohy, Ed. Building No 7, Kyiv, 03056, Ukraine *Phone:* +380 44 204 82 00

e-mail: <u>fsp@ kpi.ua</u>, Official website: <u>http://fsp.kpi.ua</u>

#### 3. Educational Programs

	Name of the Levels		of higher education		
Specialty	Educational Program	First	Second	Third	
Public Administration and Governance	Administrative management	Bachelor EPP	-	_	
	Electronic Governance	Bachelor EPP	-	_	

	Public Administration and Electronic Governance	_	Master EPP	
	Public Administration and Governance	_	-	PhD ESP
	Conflict Regulation and Mediation	Bachelor EPP	Master EPP	_
Sociology	Sociology	-	-	PhD ESP
Law	Law	Bachelor EPP	-	PhD ESP
	Information Law and Intellectual Property Law	-	Master EPP	_
	Economic and Administrative Law and Process	_	Master EPP	_
Psychology	Psychology			PhD ESP
Philosophy	Philosophy	_	_	PhD ESP
History and Archeology	History	-	-	PhD ESP

37, Peremohy Prospect, Kyiv, 03056, Ukraine, Official web-site: <u>http://www.kpi.ua</u> e-mail: <u>mail@kpi.ua</u> Phone: +38 044 236-79-89 Phone/Fax +38 044 204 97-88

