MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

NATIONAL TECHNICAL UNIVERSITY OF UKRAINE «Igor Sikorsky Kyiv Polytechnic Institute»

APPROVED by the Academic Council of Igor Sikorsky Kyiv Polytechnic Institute (protocol № 6 dated 07.09.2020) Chairman of the Academic Council Mykhailo ILCHENKO

Economics

(Економіка)

EDUCATIONAL RESEARCH PROGRAMME

third (education-and-research) level of higher education

speciality 051 Economics

field of knowledge 05 Social and behavioural sciences

qualification Doctor of Philosophy in Economics

Enacted since 2020/2021 academic year (Rector's order № 1/282 dated 17.09.2020)

DEVELOPED by the project team:

Project team leader:

Serhii VOITKO, Doctor of Economics, Professor, Head of the Department of International Economics

Project team members:

Vasyl MARTYNENKO, Doctor of Economics, Professor, Professor of Economics and Business Department

Iryna KREIDYCH, Professor of Theoretical and Applied Economics Department

Heads of departments:

Head of the Department of International Economics Serhii VOITKO, Doctor of Economics, Professor,

Acting Head of the Department of Economics and Business Petro KRUSH, Ph.D., Associate Professor, Professor

Acting Head of the Department of the mathematical modeling of economic systems Volodymyr KAPUSTIAN, Doctor of Physics and Mathematics , Professor

Acting Head of the Department Theoretical and Applied Economics Iryna KREIDYCH, Doctor of Economics, Professor

AGREED:

Scientific and Methodical Council of Speciality 051 "Economics" Igor Sikorsky Kyiv Polytechnic Institute Head of the Scientific and Methodical Council of Speciality Serhii VOITKO (protocol № 3 dated 19.08.2020)

The Methodological Council of Igor Sikorsky Kyiv Polytechnic Institute Chairman of the Methodological Council Yurii YAKYMENKO (protocol № 1 dated 03.09.2020)

CONSIDERED:

The following people joined the work on the Educational Program:

1. Saharuk Tetyana Valeriyivna, General Director of the NGO "Global Compact Network in Ukraine", Ph.D.

2. Kolomiets Oleksandra Oleksandrivna, Head of the Department of Social Strategy of the Center for Economic and Social Research, National Institute for Strategic Studies, Ph.D.

3. Podolets Roman Zdyslavovych, Head of the Sector for Forecasting the Development of the Fuel and Energy Complex of the Institute of Economics and Forecasting of the National Academy of Sciences of Ukraine, Candidate of Economic Sciences, Senior Researcher.

4. Klymchuk Maryna Mykolayivna, Professor of the Department of Organization and Management of Construction, Kyiv National University of Construction and Architecture, Doctor

of Economics, Professor.

5. Svicharov Petro Oleksandrovych, director of Krona-Kalynivka LLC.

6. Yuriy Anatoliyovych Pivovarov, Executive Director of the Ukrainian Association of the Club of Rome.

7. Krutsyak Mykhailo Orestovych, post-graduate student of the 4th year of study at educational research program PhD "Economics", Igor Sikorsky Kyiv Polytechnic Institute.

8. Zamriy Artem Myzailovych, post-graduate student of the 3rd year of study at educational research program PhD "Economics", Igor Sikorsky Kyiv Polytechnic Institute.

Relevant feedback is attached.

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1. EDUCATIONAL PROGRAM PROFILE IN THE SPECIALTY 051 ECONOMICS

1 – General information						
Full name of the higher	National Technical University of Ukraine					
education institution	"Igor Sikorsky Kyiv Polytechnic Institute" Faculty of Management and Marketing					
and institute / faculty						
Degree of higher	Degree HE – Doctor of Philosophy					
education and title of	Educational qualification – Doctor of Philosophy in Economics					
qualification in the						
original language						
The official name of the	Economics					
EP						
Type of diploma and	Ph.D. Diploma. Training period 4 years.					
scope of EP	Educational component - 30 ECTS credits. The scientific component involves					
	conducting personal research and design of results in a dissertation form.					
Accreditation availability	The program is not accredited. It is planned to issue a program for accreditation in					
Accieditation availability	2021 (already done).					
Program cycle / level	National Qualifications Framework of Ukraine – the 8 level					
Program cycle / level	QF-EHEA – the third cycle					
	,					
Precondition	EQF-LLL – the 8 level					
	Master's degree presence					
Language teaching	English					
Validity of the EP	Before accreditation					
Internet address of the	osvita.kpi.ua					
of educational program	http://ied.kpi.ua/uk/archives/2064					
permanent placement						
Tusiains of hisbly availifier	2 – The purpose of the educational program					
	competitive specialists in economics, able to solve complex problems in the field of					
	I innovation in the field of economics, which involves a deep rethinking of existing					
and the creation of new h	olistic knowledge.					
	3 – Characteristics of the educational program					
Subject area	Object of study and / or activity: modern economic processes and phenomena,					
	scientific methods of normative, quantitative and institutional analysis, tools for					
	the formation of international, national, regional, sectoral economic policy and					
	business economics.					
	Learning objectives: training of highly qualified professionals in economics who					
	have modern economic thinking, theoretical knowledge and applied skills, able to					
	solve complex research, innovation and management problems and problems of					
	functioning of economic systems of different levels, characterized by uncertainty of					
	conditions and requirements. Theoretical content of the subject area: general laws					
	and trends of economic development, motivation and behavior of market					
	participants; theories of micro-, macro- and international economics; modern					
	quantitative methods of analysis of economic processes; institutional and					
	interdisciplinary analysis; patterns of modern socio-economic processes; theories					
	of economic management for different production systems and sectors of the					
	economy.					
Orientation of the EP	Educational and scientific					

The main focus of the EP	It consists in the possibility of forming integrated competencies of the applicant,
	combining deep theoretical training with the development of practical skills of
	research and teaching, based on best practices, which are aimed at the
	comprehensive development of the specialist and contribute to his professional
	growth.
	The program is based on the latest scientific principles, conceptual foundations of
	economic research and solving current problems in the field of economics, which
	create the basis for the formation of innovative solutions in theoretical and
	applied areas.
	Keywords: world economy, analysis of economic systems, mathematical methods
	in economics, change management, business transformation.
Features of EP	
Features of EP	The peculiarities of EEP are the training of highly qualified specialists in economics
	on the basis of comprehensive professional, intellectual, social and creative
	development of the individual integrated into the world research space, who have
	modern economic thinking, theoretical knowledge and applied skills capable of
	solving complex research and innovation. tasks and problems of functioning of
	economic systems of different levels, characterized by uncertainty of conditions
	and requirements. The purpose and purpose of the EEP in all respects correspond
	to the specified strategy of Igor Sikorsky Kyiv Popytechnic Institute, namely:
	"providing training of highly qualified specialists capable of creating modern
	scientific knowledge and innovative technologies for the benefit of mankind and
	ensuring a worthy place of Ukraine in the world community" and promoting
	"shaping the society of the future on the basis of sustainable development through
	internationalization and integration of education, the latest research and
	innovative developments.
	The program focuses on conducting research work according to the research topics
	of supervisors.
	The implementation of the program involves the involvement of classroom
	practitioners, industry experts, representatives of employers.
4 – Th	e suitability of graduates for employment and further education
Employability	Graduates can work at enterprises of any organizational and legal form in positions
Employability	(according to the classifier of professions of Ukraine DK 003: 2010):
	2310 Teachers of universities and higher educational institutions
	2414.1 Researchers (financial and economic security of enterprises, institutions and
	organizations)
	2441.1 Researchers (economics)
	According to the International Standard Classification of Occupations 2008,
	graduates can work in positions that correspond to groups
	12 Administrative and commercial managers
	121 Business services and administration managers
	33 Business and administration associate professionals
	332 Sales and purchasing agents and brokers
	333 Business services agents
Further education	Continuing education in doctoral studies and / or participation in postdoctoral
	programs.

		5 – Teaching and evaluation			
Teaching and	d learning	General learning style - task-oriented. Teaching is carried out in the form of: lectures, practical classes, computer workshops, independent work with the possibility of consulting with a teacher, individual tasks, practice, application of information and communication technologies (e-learning, online lectures, distance courses) for individual educational components. All participants in the educational process are provided with timely and understandable information on the goals, content and program learning outcomes, the procedure and evaluation criteria. One of the main tasks of the University is to carry out scientific activities by conducting research, ensuring the creative activity of participants in the educational process, training highly qualified scientific staff and using the results in the educational process, providing an organic combination in the educational process of educational, scientific and innovative activities. University development strategies for the period 2020-2025. Postgraduate students are free to participate in educational, scientific and scientific-organizational activities carried out both within Ukraine and abroad. Postgraduate students are involved in research within the scientific topics of the department or faculty. The results of scientific research are published in professional publications, collections of scientific papers and conference proceedings both in Ukraine and abroad.			
Evaluation		Current and semester control are assessed according to the defined criteria of the Rating system.			
		6 – Program competencies			
Integral com	petence	Ability to solve complex problems in the field of professional and / or research and innovation in the field of economics, which involves a deep rethinking of existing and the creation of new holistic knowledge and / or professional practice.			
		General competences (GC)			
GC 1	Ability to a	bstract thinking, analysis and synthesis.			
GC 2	Ability to se	earch, process and analyze information from various sources.			
GC 3	Ability to w	ork in an international context.			
GC 4	Ability to g	enerate new ideas (creativity).			
GC 5		use the acquired knowledge to apply scientific, analytical, figurative and visual			
GC 6	their own	obtain information, ideas and points of view from highly specialized sources within field of study; understand articles and scientific reports on contemporary issues in authors have a certain position or point of view.			
	-	Professional competences (PC)			
PC 1	Ability to perform original research, to achieve scientific results that create new knowledge in economics and related interdisciplinary areas and can be published in leading scientific journals in economics and related fields.				
PC 2	Ability to orally and in writing present and discuss the results of research and / or innovative developments in Ukrainian and English, a deep understanding of English scientific texts on economics.				
PC 3	Ability to substantiate strategies for the development of socio - economic systems using modern software products.				
PC 4	Ability to carry out scientific and pedagogical activities in higher education institutions and in the real sector of the economy.				
PC 5	Ability to identify, analyze in depth and solve research problems in the field of economics, taking into account economic risks and possible socio-economic consequences, to assess and ensure the quality of research.				
PC 6	Ability to substantiate economic decisions based on understanding the patterns of development of socio-economic systems and processes using mathematical methods and models at the micro, meso and macro levels.				

207	Ability to initiate, develop and implement comprehensive innovation projects in the economy						
PC 7	and related interdisciplinary approaches, to identify leadership qualities and responsibilities						
	during their implementation.						
PC 8	8 Ability to adhere to research ethics, as well as the rules of academic integrity in research and scientific and pedagogical activities						
scientific and pedagogical activities.							
	7 – Program study results						
TR 1 Have theoretical knowledge of economics, socio-economic systems and at the bound subject areas, as well as research skills sufficient for basic and applied research at the							
	the latest world achievements in the relevant field, gaining new knowledge and / or innovation.						
	Deeply understand the basic (fundamental) principles and methods of economic sciences, as						
TR 2	well as the methodology of scientific research, apply them in their own research in the field of						
1112	economics in order to achieve economic and social efficiency in the context of globalization.						
	Develop and research fundamental and applied models of socio-economic processes and						
TR 3	systems, effectively use them to gain new knowledge and / or create innovative products in						
	economics and related interdisciplinary areas.						
	Apply modern tools and technologies for information retrieval, processing and analysis, in						
TR 4	particular, statistical methods of analysis of large data sets and / or complex structures,						
	software and information systems.						
	Develop and implement research and / or innovation projects that provide an opportunity to						
TR 5	rethink existing and create new holistic knowledge and / or professional practice and solve						
_	significant problems of basic economics, taking into account social, economic, environmental						
	and legal aspects, leadership, autonomy and responsibility .						
TDC	Freely present and discuss with specialists and non-specialists the results of research,						
TR 6	theoretical and practical problems of economics in state and foreign languages, qualified to						
	reflect the results of research in scientific publications in leading scientific journals. Apply innovative scientific and pedagogical technologies, formulate the content, learning						
TR 7	objectives, ways to achieve them, forms of control, be responsible for the effectiveness of the						
	educational process in compliance with the norms of academic ethics and integrity.						
	8 – Resource support for program implementation						
Ctoff accietor							
Staff assistan							
	of educational activities for the relevant level of HE, approved by the Resolution						
	of the Cabinet of Ministers of Ukraine dated 30.12.2015 № 1187 (current) as						
	amended on 23.05.2018 № 347. Teaching of economic disciplines with						
	appropriate methodological support is carried out by highly qualified teachers,						
	including: 6 doctors of sciences and 14 candidates of sciences (Department of						
	International Economics), 2 doctors of sciences and 9 candidates of sciences						
	(Department of Mathematical Modeling of Economic Systems), 5 doctors of						
	sciences and 20 candidates of sciences, 4 senior teachers (Department of						
	Economics and Entrepreneurship), 3 doctors of sciences and 11 candidates of						
sciences (department of theoretical and applied economics).							
Material and	technical In accordance with the technological requirements for material and technical						
support	support of educational activities of the relevant level of HE, approved by the						
	Resolution of the Cabinet of Ministers of Ukraine dated 30.12.2015 № 1187						
	(current) in the wording dated 23.05.2018 № 347.						
	Material and technical support of 4 departments that provide ONP "Economy"						
	have: training facilities with a total area of 30 to 50 m ² . The departments have						
	specialized lecture halls (equipped with modern multimedia equipment), as well						
as classes for independent work of students.							

Information and	In accordance with the technological requirements for educational and
Information and methodological support	In accordance with the technological requirements for educational and methodological and information support of educational activities of the relevant level of HE, approved by the Resolution of the Cabinet of Ministers of Ukraine dated 30.12.2015 № 1187 (current) as amended on 23.05.2018 № 347. Use of the Scientific and Technical Library of Igor Sikorsky Kyiv Popytechnic Institute. Educational and methodological support of disciplines is determined by teachers and departments (group of educational and scientific program support), based on the need to provide students with all the information and materials necessary for successful study. These are textbooks and manuals, as well as author's materials developed by the teacher: lecture notes, guidelines and recommendations; individual tasks; collections of situational tasks (cases), examples of solving typical tasks or performing typical tasks; computer presentations; illustrative materials; resource directories. Teachers of departments can provide students with links to available scientific, educational and methodological literature, as well as electronic resources and other sources of information, including foreign and international, which have the permission of the copyright owner for free use in the educational process. As sources of information recommended to students (graduate students) available to them: printed scientific, educational and methodological, popular science and other publications; electronic publications; open state registers; published documents and official websites of statistical bodies, other institutions and sources of information. Namely: the use of a wide list of databases, open access to which is carried out from the Igor Sikorsky Kyiv Popytechnic Institute Library. These databases include the world-famous database SCOPUS, Web of Science, as well as other databases in the field of economics: Business Source Premier (EBSCO Publishing), RePEc (Research Papers in Economics), UNdata (Social Science Research Network), etc. Full list of avai
	URL: https://www.library.kpi.ua/resources/databases/. 9 – Academic mobility
National credit mobility	In order to exercise the right of the higher education applicant to an individual educational trajectory (Regulations on the individual curriculum of the higher education applicant https://osvita.kpi.ua/node/117) Igor Sikorsky Kyiv Popytechnic Institute provides an opportunity on the basis of relevant regulations (Regulations on recognition in Igor Sikorsky Kyiv Popytechnic Institute of the results of previous training https://osvita.kpi.ua/node/181, Regulations on academic mobility Igor Sikorsky Kyiv Popytechnic Institute https://osvita.kpi.ua/node/124) use educational offers domestic free economic zones. To date, agreements have been concluded with Odessa Polytechnic State University and Lviv Polytechnic National University. The possibility of concluding agreements on academic exchange programs with other partners is considered. Recognition of learning outcomes under credit mobility programs is based on curricula and / or their individual parts (credit modules / disciplines) agreed with partner universities and on the basis of the European Credit Transfer and Accumulation System.

International credit mobility	In order to internationalize the activities of the university and realize the right of the higher education applicant to an individual educational trajectory (Regulations on the individual curriculum of the higher education applicant https://osvita.kpi.ua/node/117) Igor Sikorsky Kyiv Popytechnic Institute provides an opportunity based on relevant regulations documents (documents http://mobilnist.kpi.ua/documents) to use educational offers of foreign free economic zones. Existing agreements on international academic mobility - in particular, the "Programs" tab on the website of the Department of Academic Mobility http://mobilnist.kpi.ua/reditna-mobilnist/, namely for PhDs in Economics from the Friedrich Schiller University of Jena, the Federal Republic of Germany and the University of Oradea, Romania. Applicants can choose from various international events - also possible participation of third-level applicants in the project "Educational cooperation of the Norwegian University of Natural and Technical Sciences and Igor Sikorsky Kyiv Popytechnic Institute in the Fourth Industrial Revolution" under the Eurasia program https: // ipd. kpi.ua/presentations-uknorw-summer-school/ (https://ipd.kpi.ua/ongoing-projects/). The project is included in the list of the most important projects of the university https://kpi.ua/collaboration and provides for short-term (1 week) visits of four graduate students from Igor Sikorsky Kyiv Popytechnic Institute until 2022. The possibility of concluding agreements on academic exchange programs with other partners is considered.
Training of foreign applicants	Training is carried out in English

Code	Components of the educational program (disciplines, course projects / works, practice, qualification work)	Number of ECTS credits	Form of final control
	1. Compulsory educational components		
ZO 1	Philosophical principles of scientific activity	6	Test, Exam
ZO 2	Foreign language for scientific activity	6	Test, Exam
PO 1	Global Economy	3	Exam
PO 2	Theory of Analysis of Economic Systems	3	Exam
PO 3	Neoclassical models of economic processes	3	Exam
PO 4	Change Management and Business Transformation	3	Exam
PO 5	Organization of scientific and innovative activities	4	Test
PO 6	Pedagogic Practice	2	Test
B 1	Educational component 1 of the F-Catalog	5	Test
B 2	Educational component 2 of the F-Catalog	5	Test
TOTAL IN COMPULSORY educational components:			30
TOTAL IN SELECTIVE educational components:			10
	TOTAL OF THE EDUCATIONAL PROGRAM		40

2. COMPONENTS LIST OF THE EDUCATIONAL PROGRAM

3. STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL COMPONENT OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM



Compulsory educational components	Optional educational components

4. SCIENTIFIC COMPOSITION

Year		
training	The content of the graduate student's scientific work	Form of control
1 year	Choice and substantiation of the topic of own research, determination of the content, terms of performance and volume of scientific works; selection and substantiation of the methodology of own research, review and analysis of existing views and approaches that have developed in modern science in the chosen field. Preparation and publication of at least 1 article (usually a review) in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Approval of the individual plan of the graduate student's work at the academic council of the institute / faculty, reporting on the progress of the individual graduate student's plan twice a year
2 year	Conducting own research under the guidance of the supervisor, which involves solving research problems through the use of a set of theoretical and empirical methods. Preparation and publication of at least 1 article in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual graduate student's plan twice a year.
3 year	Analysis and generalization of the obtained results of own scientific research; substantiation of scientific novelty of the obtained results, their theoretical and / or practical significance. Preparation and publication of at least the 1st article in scientific professional publications on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual graduate student's plan twice a year.
4 year	Registration of scientific achievements of the post-graduate student in the form of the dissertation, summing up concerning completeness of coverage of results of the dissertation in scientific articles according to the current requirements. Implementation of the obtained results and receipt of supporting documents. Submission of documents for preliminary examination of the dissertation. Preparation of a scientific report for final certification (defense of the dissertation).	Reporting on the progress of the individual graduate student's plan twice a year. Providing an opinion on the scientific novelty, theoretical and practical significance of the dissertation results. Dissertation defense.

5. FORM OF GRADUATE CERTIFICATION OF HIGHER EDUCATION APPLICANTS

Certification forms of higher education applicants Requirements for qualification work	Graduation certification of applicants for higher education in the educational and scientific program Economics is carried out on the basis of analysis of academic performance, evaluation of the quality of solutions by applicants for higher education tasks. Certification of doctors of philosophy is carried out in the form of public defense of the dissertation and ends with the issuance of a standard document on the award of the degree of Doctor of Philosophy with the qualification "Doctor of Philosophy in Economics". The dissertation for the degree of Doctor of Philosophy in Economics is an independent research that offers a topical scientific problem in the field or on the border of several fields, the results of which are an original contribution to the amount of knowledge in the field and published in relevant publications.
Requirements for public protection (demonstrations)	Requirements for the procedure and special conditions for conducting public protection are determined by the Cabinet of Ministers of Ukraine.

6. MATRIX OF CONFORMITY A PROGRAM COMPETENCIES TO THE COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM

	ZO 1	ZO 2	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Scientific component
GC 1	+			+					+
GC 2	+	+	+	+					+
GC 3		+	+						+
GC 4	+						+		
GC 5	+								
GC 6		+							+
PC 1			+	+	+	+	+		+
PC 2		+					+		+
PC 3					+				+
PC 4							+	+	+
PC 5				+	+				+
PC 6				+	+				+
PC 7						+	+		+
PC 8	+							+	

7. MATRIX OF PROVIDING PROGRAM LEARNING RESULTS BY RELEVANT COMPONENTS OF THE THE EDUCATIONAL AND SCIENTIFIC PROGRAM

	ZO 1	ZO 2	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	Scientific component
TR 1			+	+	+	+	+		+
TR 2	+	+	+	+	+		+	+	+
TR 3			+	+	+	+	+		+
TR 4			+	+	+				+
TR 5			+	+	+	+	+		+
TR 6		+		+	+	+	+	+	+
TR 7	+		+	+	+			+	+