

**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
(Minutes No 6 of June 29, 2021)
Chairman of the Academic Council
Mykhailo ILCHENKO

MANAGEMENT

**EDUCATIONAL AND SCIENTIFIC PROGRAMME
The Third (Educational and Scientific) Level of
Higher Education**

Specialty	073 Management
Area of Knowledge	07 Management and Administration
Qualification	Doctor of Philosophy

Came into force from 2021/2022 academic year
by order of the rector of
Igor Sikorsky KPI
on July 13, 2021, No HOH/194/2021

Kyiv – 2021

PREAMBLE

DEVELOPED by the project team:

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AGREED by:

Scientific Methodical Commission of Igor Sikorsky KPI

for the specialty 073 Management

Chairman of the Commission

Victoria DERGACHOVA

(The Minutes No 12 of May 28, 2021)

Methodical Council of Igor Sikorsky KPI

Chairman of the Methodical Council

Yuriy YAKYMENKO

(The Minutes No 8 of June 24, 2021)

THE FOLLOWING WAS TAKEN INTO ACCOUNT:

1. Draft of the Standard of higher education for specialty 073 Management for the third (educational and scientific) level of higher education, Doctor of Philosophy degree (considered and approved at the meeting of the working group of the subcommittee on the specialty 073 Management of scientific-methodical commission No 6 on business, management and law, December 17, 2017, the Minutes No 10).
2. National Qualifications Framework. Appendix to the Resolution of the Cabinet of Ministers of Ukraine of November 23, 2011 No 1341 (as amended by the Resolution of the Cabinet of Ministers of Ukraine on June 25, 2020, No 519). URL: <https://zakon.rada.gov.ua/laws/show/1341-2011-%D0%BF#Text>
3. Discussion of the proposals from employers, academicians and applicants for the third (educational and scientific) level of higher education at the meetings of the SMC Igor Sikorsky KPI on the specialty 073 Management (the Minutes No 5 of October 27, 2020, No 6 of November 24, 2020, No 8 of January 27, 2021, No 10 of March 17, 2021, No 11 of March 23, 2021, No 11 of 23 April 2021, No 12 of May 28, 2021).
4. Discussion of the results of internal self-assessment and proposals from employers, academicians and applicants for the third (educational and scientific) level of higher education at the meetings of the department (the Minutes No 4 of October 12, 2020, No 5 of November 2, 2020, No 7 of 30 November 2020, No 8 of December 21, 2020, No 12 of February 22, 2021, No 15 of April 27, 2021, No 16 of May 24, 2021).
5. The reviews, feedback from employers, stakeholders, and results of public discussion.
6. Regulations on developing, approving, monitoring, and reviewing study programmes in Igor Sikorsky KPI. URL: <https://osvita.kpi.ua/node/137>
7. The Order NON /18/2021 of February 01, 2021 "On the organization and planning of the educational process for the 2021-2022 academic year". URL: https://document.kpi.ua/2021_HOH-18

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1. PROFILE OF THE EDUCATIONAL PROGRAMME

1 – General Information	
Full name of the institution of higher education and the faculty	National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Faculty of Management and Marketing
Degree of higher education and the title of the qualification in the original language	Degree of higher education – Doctor of Philosophy (Доктор філософії) Educational qualification – Doctor of Philosophy in Management (Доктор філософії з менеджменту)
The official name of the study programme	МЕНЕДЖМЕНТ Management
Type of diploma and the volume of the Programme	Diploma of Doctor of Philosophy The educational component consists of 40 ECTS credits. The duration of the Programme is 4 years. The scientific component includes conducting own research by postgraduates and presenting its results in the form of a dissertation
Availability of accreditation	The programme is not accredited. It is planned to submit the programme for accreditation by the National Agency for Quality Assurance in Higher Education in 2022.
Cycle/level of higher education	NQF of Ukraine – 8th level, QF-EHEA – 3rd cycle, EQF-LLL – 8th level
Prerequisites/ Admission Requirements	Master's degree (EQL "Professional")
Language of the Programme	Ukrainian
Validity of the Programme	Until the next accreditation
Internet address of the permanent location of the Programme	https://osvita.kpi.ua/073 http://management.fmm.kpi.ua
2 – The Purpose of the Study Programme	
Training of highly qualified professionals in management integrated into the European and world scientific and educational space, that possess the following abilities: independently solve the problems of professional, scientific, and innovation activities in the field of management and administration of industrial enterprises by integrating knowledge, research and innovations; deeply rethink existing knowledge and form new knowledge on the management of economic systems under conditions of professional, intellectual, and creative development; perform complex applied tasks for the development of management tools to ensure sustainable and advanced development of enterprises and neo-industrialization of the real sector of the economy; perform professional, scientific, pedagogical, and practical activities.	
3 – Characteristics of the Study Programme	
Subject area	<p><i>The object of study is</i> the scientific and methodological basis of management of organizations and their associations under uncertainty of conditions and requirements.</p> <p><i>Learning objectives:</i> acquisition of knowledge and skills in the field of management, which allows solving complex problems of management of organizations and their associations based on deep mastering of existing knowledge and creation of new holistic knowledge and /or professional practices.</p> <p><i>The theoretical content of the subject area:</i> advanced conceptual and methodological knowledge, both scientific and professional, in the field of management.</p> <p><i>Methods, techniques, and technologies:</i> critical analysis, evaluation, and synthesis of new and complex ideas in the field of management; economic-mathematical methods and information technologies of scientific research in the field of management.</p> <p><i>Tools and equipment:</i> modern information and communication equipment, information systems, and software products used for research and scientific and pedagogical activities in the field of management.</p>

Orientation of the study programme	Educational and scientific
The major focus of the study programme	<p>Specialized education in management and administration.</p> <p>The educational and scientific programme is aimed at gaining in-depth, integrated with the management of industrial enterprises knowledge of management theory and practice, which provides the acquisition of specific abilities to scientific research, professional activity in the industry, and teaching in economic and technical education.</p> <p>The programme is based on theoretical, methodological, and practical provisions for solving current scientific and applied problems in industrial enterprise management, taking into account existing and future trends of the development of management theory and practice.</p> <p>Keywords: management, administration, system management, methodology, applied management, management modeling, enterprise.</p>
Programme distinctions	<p>The programme distinctions lie in the comprehensive provision of relevant interdisciplinary and professional knowledge concerning the specifics, models, and system management of industrial enterprises, development of research skills in management and teaching in the educational and scientific environment, gaining professional and social skills at the highest levels of excellence.</p> <p>The direction, purpose, and goals of the programme are in line with the strategy of Igor Sikorsky KPI on "promoting the formation of the society of the future based on the concept of sustainable development through internationalization and integration of education, the latest research, and innovative developments", "creating conditions for comprehensive professional, intellectual, social, and creative development", "training highly qualified professionals been able to create modern scientific knowledge and innovative technologies ...".</p> <p>The uniqueness of the programme is determined by the priority orientation of research on the transformation of management imperatives of industrial enterprises, in particular, of mechanical engineering (including military-industrial complex), metallurgy, energy, and printing industry.</p> <p>Education is assured using the combination of theoretical, methodological, scientific, and pedagogical training.</p> <p>Applicants' research works are carried out by the research areas of their supervisors.</p> <p>The programme implementation provides an opportunity to involve professionals, industry experts, and employers' representatives in teaching.</p> <p>The educational and scientific components of the programme are formed taking into account the individual educational trajectory of applicants, which is created in accordance with the needs of their professional development and the tasks of scientific theoretical and applied research.</p> <p>Opportunities for international academic internships and credit mobility programs are available.</p>

4 – Graduates Suitability for Employment and Further Study

Suitability for employment	<p>According to the classifier of professions DK 003: 2010:</p> <p>2310 University and higher education teachers; 2447.1 Researchers (projects and programs); 2447 Project and programme management professionals 12 Executives of enterprises, institutions, and organizations; 1210.1 Executives of enterprises, institutions, and organizations; 1237 Executives of research subdivisions and subdivisions for scientific and technical preparation of production and other executives; 1238 Project and program managers; 1239 Executives of other functional units.</p> <p>According to the International Standard Classification of Occupations 2008, graduates can work in positions that correspond to the groups:</p> <p>231 University and higher education teachers; 112 Managing directors and chief executives; 12 Administrative and commercial managers; 1223 Research and development managers; 33 Business and administration associate professionals</p>
Further study	Obtaining the Doctor of Science degree, acquiring additional qualifications in the system of adult education.

5 – Teaching and Appraisal

Teaching and learning	<p>Problem-oriented learning, personality-oriented learning, student-centered learning, self-learning, learning by research, and learning by teaching. Teaching is conducted in the form of lectures of a problematic nature, practical classes, the use of information and communication technologies (online lectures, distance learning courses), self-learning with the opportunity to consult with a teacher, and performance of own research. The following activities are applied:</p> <ul style="list-style-type: none"> – joint learning in interdisciplinary groups; – learning by research while performing scientific research within the scope of department academic topics, conducting individual research activities, consulting with the supervisor, scientific and pedagogical community; – learning by teaching during the pedagogical practice. <p>The scientific component is performed according to the postgraduate’s individual plan of scientific work. Learning is assured through the dissertation preparation, its scientific guidance by the supervisor, participation in scientific and practical conferences and seminars, publications of abstracts and papers in specialized academic editions, both domestic and foreign, including those indexed in scientometric databases. Teaching and learning in the programme are incorporated according to the competency-based methodological approach.</p>
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Appraisal	<p><i>Educational component</i></p> <p>The estimation of applicants learning outcomes identified in their individual curricula is conducted according to a rating system. For each educational component, the rating system is based on current control according to defined criteria and the accumulation of rating points.</p> <p>For the current appraisal of the level of educational components mastering, the results of learning tasks performance, tests, and control works are used according to the rating system's defined criteria.</p> <p>For the semester control of educational components mastering, rating systems with the distribution of points according to the reference representations incorporating three types of final control are applied: credit, examination (written or oral), and defense of the report on pedagogical practice.</p> <p>The rating system for assessing each educational component is communicated to the applicants at the first tutorial and does not change during the semester.</p> <p>The pedagogical practice is evaluated in accordance with the defined criteria of the rating system. The credit test is conducted by the commission for the semester control in the form of an oral defense of practice results.</p> <p><i>Scientific component</i></p> <p>The estimation is carried out in accordance with the applicant's individual plan of scientific work and includes:</p> <ul style="list-style-type: none"> – supervisor's evaluation of the work performed on the dissertation; – coverage of the dissertation results in scientific journals; – participation in scientific and practical conferences with the publication of abstracts; – reporting on the progress of the individual plan performance by the postgraduate student twice a year; – conclusion on the scientific novelty, the theoretical and practical significance of the dissertation results. <p>Attestation is carried out by a one-time specialized scientific council based on the public defense of scientific achievements in the form of a dissertation presented.</p>
6 – Programme Competencies	
Integral competence	Ability to solve complex problems in the field of management, research, and innovation, which involves a deep rethinking of existing and the creation of new holistic knowledge and/or professional practice.
General Competencies (GC)	
GC1	Mastering general scientific competencies aimed at forming a systematic scientific worldview.
GC 2	Ability to critical thinking, generating new complex ideas, analysis, and synthesis of holistic knowledge, including abstract thinking, evaluation of modern scientific achievements, generating new knowledge in solving research and practical problems.
GC 3	Ability to organize and conduct original scientific research.
GC 4	Ability to communicate with the scientific community in order to present the results of scientific research and their publication in the state, English, and/or other foreign languages, as well as the ability to work in the international context.

GC 5	Ability to scientific and pedagogical activities in the field of management and administration, including the ability to carry out and organize scientific and pedagogical activities in higher education using the latest pedagogical approaches and practices, in particular information technology in the educational process, to diversify teaching methods.
GC 6	Ability to act based on ethical considerations and academic integrity, including adherence to moral and ethical rules of conduct, ethics of research specific to participants in the academic environment, as well as rules of academic integrity in research.
GC 7	Ability to ensure continuous self-development and self-improvement, to be responsible for the development of others in the professional field, adhering to pedagogical ethics, the rules of academic integrity in scientific and pedagogical activities.
Professional Competencies of the Specialty (PC)	
PC 1	Ability to search, process, analyze, and summarize information for independent scientific research in the field of management.
PC 2	Ability to reasonably choose and use methods and tools of research in the field of management.
PC 3	Acquisition of in-depth knowledge of management, including an understanding of theoretical and practical problems, history of development and current state of scientific knowledge, critical analysis of basic concepts, and mastering scientific terminology.
PC 4	Acquisition of general research skills in the field of management, in particular the application of modern information technologies in scientific activities, management of scientific projects and/or drafting proposals for research funding, and registration of intellectual property rights.
PC 5	Acquisition of language competencies sufficient to present and discuss the results of research in a foreign language (English or other according to the specifics of the specialty) orally and in writing, as well as for the full understanding of foreign language scientific texts on management.
PC 6	Ability to implement the results of own research in the field of management.
PC 7	Ability to critically comprehend system paradigms, solve scientific and applied problems of system management of industrial enterprises.
PC 8	Ability to model the management of economic systems and processes of industrial enterprises, to verify the built economic and mathematical models of empirical data based on information technology.
7 – Programme Learning Outcomes	
PLO 1	To form a systematic scientific worldview, possess modern theories and concepts in the field of management, as well as to understand the role of science and explain its impact on social processes.
PLO 2	To organize and conduct original scientific research in the field of management at the appropriate professional level, achieve scientific results that create new knowledge to solve current problems of theory and practice, including formulating and testing hypotheses, use appropriate evidence to substantiate conclusions.
PLO 3	To demonstrate skills of independent scientific research, flexible thinking, openness to new knowledge, evaluate the results of autonomous work, and be responsible for personal professional development and training of others.
PLO 4	To initiate, develop and implement projects in the field of management, manage them, and search for partners to implement them.

PLO 5	To apply scientific and pedagogical technologies, formulate the content, the goals of the study, the ways to achieve them, forms of control, be responsible for the effectiveness of the educational process, including enhancing the cognitive activity of students, teach professional disciplines, using basic knowledge of pedagogics and psychology of higher education and research results.
PLO 6	To demonstrate the skills of scientific communication, international cooperation, to present to the general scientific community and the public in the field of management in state and foreign languages orally and in writing.
PLO 7	To carry out critical analysis, summarize research results, formulate and substantiate conclusions and proposals for the development of conceptual and methodological knowledge in the field of management, including the use of research methodology to critically comprehend and solve research problems.
PLO 8	To demonstrate skills of presentation and publication of research results in state and foreign languages in oral and written form, including discussing research results, scientific and applied problems of the field, qualified to reflect research results in scientific publications in leading international scientific journals.
PLO 9	To choose and use general and special methods of scientific research in the field of management.
PLO 10	To carry out the approbation and implementation of the results of own scientific research in the field of management.
PLO 11	To act based on ethical considerations and academic integrity in the process of conducting scientific research, publishing, and implementing the results, as well as in the process of educational (pedagogical) activities.
PLO 12	To demonstrate skills of planning the educational process in higher education, perform tasks and functions of research and teaching staff, meet requirements for the preparation of documentary support of the educational process, and have skills in organizing pedagogical activities.
PLO 13	To apply system management in the field of industrial enterprise management and system analysis tools.
PLO 14	To develop the methods and apply modeling in solving scientific and applied problems in the field of industrial enterprises management, their development, and organizational transformations.
8 – Resource Support for Programme implementation	
Staffing support	In accordance with the staffing requirements for educational activities for the relevant level of HE, approved by the Resolution of the Cabinet of Ministers of Ukraine of 30.12.2015 No 1187 as amended by the Resolutions of the Cabinet of Ministers of Ukraine No 347 of 10.05.2018, No 180 of 03.03.2020 and No 365 of 24.03.2021. The scientific and pedagogical staff involved in the implementation of the study programme have a scientific degree, academic title, as well as practical experience. Applicants' supervisors are researchers in the field of management and administration.

Material and technical support/Logistics	<p>In accordance with the technological requirements for material and technical support of educational activities of the relevant level of HE, approved by the Resolution of the Cabinet of Ministers of Ukraine of 30.12.2015 No 1187 as amended by the Resolutions of the Cabinet of Ministers of Ukraine No 347 of 10.05.2018, No 180 of 03.03.2020 and No 365 of 24.03.2021. Educational and scientific activities for the training of applicants for study programmes are provided by the material and technical base of Igor Sikorsky KPI, which meets the licensing requirements and the requirements for educational activities. The university has a developed social and sports infrastructure, which includes educational buildings, a library, a physical education, and sports center, a medical center, recreation centers, a culture, and arts center. The Department of Management has a multimedia training laboratory equipped with modern computers and licensed software connected to the internal network. Access to the YouControl database is available. The educational environment is safe for the life and health of students, which is assured by the activities of the university subdivisions. To maintain the mental health of the applicants, there is a Department of Social and Psychological Work – Student Social Service. Applicants are provided with a dormitory.</p>
Information, teaching, and methodological support	<p>In accordance with the technological requirements for educational and methodological and informational support of educational activities of the relevant level of HE, approved by the Resolution of the Cabinet of Ministers of Ukraine of 30.12.2015 No 1187 as amended in accordance with the Resolutions of the Cabinet of Ministers of Ukraine No 347 of 10.05.2018, No 180 of 03.03.2020, No 365 of 24.03.2021.</p> <p>The general library collection of book paper copies of Igor Sikorsky KPI's library, as well as electronic resources, including the Electronic Archive of Scientific and Educational Materials "ELAKPI", prepaid databases (Scopus, Web of Science, Springer Nature, Business Source Premier (EBSCO Publishing), ScienceDirect), access to other databases RePEc (Research Papers in Economics), UNdata (Social Science Research Network, etc.), Unichek borrowing verification software, free access to the Internet. Scientific and educational, educational, and methodical materials of the internal network of the University "Electronic Campus", Distance Learning Platform "Sikorsky", personal cabinets of academic staff (RPP) on the website of the department.</p> <p>Educational and methodological support of educational components includes syllabi, teaching materials, reference notes of lectures, distance learning courses, monographs, and scientific publications.</p>
9 – Academic Mobility	
National credit mobility	<p>The opportunity in case of concluding agreements on academic mobility in accordance with the current legislation of Ukraine. Applicants for higher education can take advantage of academic exchange programs with domestic higher educational establishments, in particular in accordance with the agreement with the State University "Odessa Polytechnic".</p> <p>Concluding agreements on academic exchange programs with other higher educational establishments and partners is envisaged.</p>

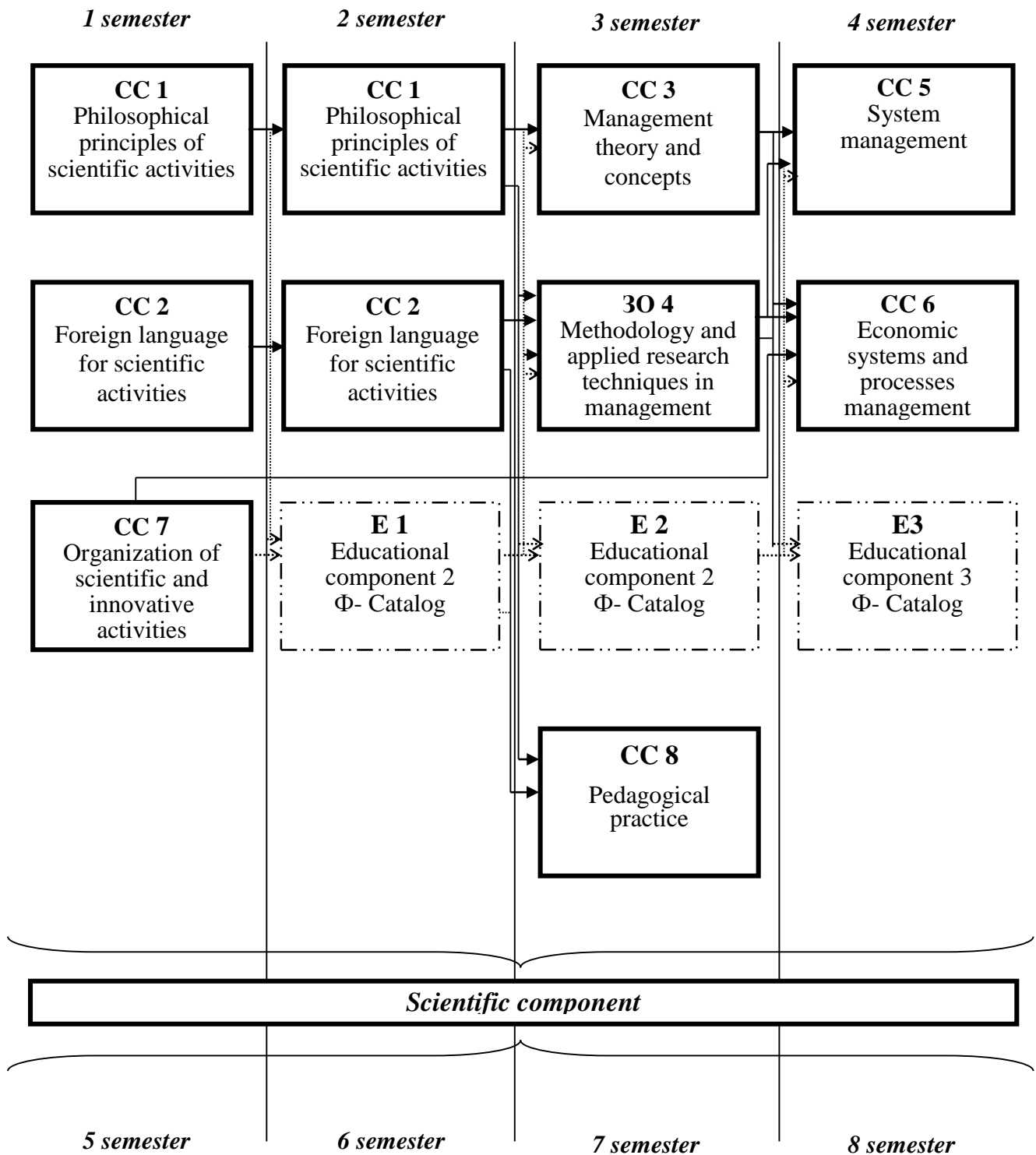
International credit mobility	<p>The opportunity to use educational offers of foreign higher educational establishments. Applicants have the opportunity to choose the proposals submitted by the Department of Academic Mobility of Igor Sikorsky KPI, as well as within the framework of bilateral agreements (memoranda) on cooperation with partner universities.</p> <p>In particular, there is an opportunity to participate in two academic mobility programs:</p> <ol style="list-style-type: none"> 1) Erasmus + KA1 on a competitive basis at the University of Jena (Germany), the University of Poznan (the Republic of Poland), and Dumlupinar University (the Republic of Turkey); 2) MEVLANA EXCHANGE PROGRAM at Selcuk University, Ankara University (the Republic of Turkey). <p>It is possible to take part in international events within the framework of cooperation agreements with Czestochowa Polytechnic University (Poland) and Varna University of Technology (the Republic of Bulgaria).</p> <p>Concluding agreements on academic exchange programs with other partner educational institutions is envisaged.</p>
Training of foreign applicants for higher education	<p>For foreign applicants participating in academic mobility programs, training is provided in Ukrainian. It is possible to study in English in certain groups, provided that the applicant has a B2 level of English.</p>

2. LIST OF COMPONENTS OF THE STUDY PROGRAMME

<i>Code</i>	<i>Components of the study programme (disciplines, practices, and qualification work)</i>	<i>Number of credits</i>	<i>Form of final control</i>
1. Compulsory educational components			
<i>1.1. Educational disciplines for mastering general scientific (philosophical) competencies</i>			
CC 1	Philosophical principles of scientific activities	6	credit, exam
<i>1.2. Educational disciplines for acquiring language competencies</i>			
CC 2	Foreign language for scientific activities	6	credit, exam
<i>1.3. Educational disciplines for acquiring in-depth knowledge of the specialty</i>			
CC 3	Management theory and concepts	3	exam
CC 4	Methodology and applied research techniques in management	3	exam
CC 5	System management	3	exam
CC 6	Economic systems and processes management modeling	3	exam
<i>1.4. Educational disciplines for the acquisition of general competencies of a researcher</i>			
CC 7	Organization of scientific and innovative activities	4	exam
CC 8	Pedagogical practice	2	credit
2. Elective educational components¹			
E 1	Educational component 1 Φ – Catalog	4	credit
E 2	Educational component 2 Φ – Catalog	3	credit
E 3	Educational component 3 Φ – Catalog	3	credit
A total number of compulsory educational components:		30	
A total number of selective educational components:		10	
TOTAL VOLUME OF THE STUDY PROGRAMME		40	

¹ Φ – Catalog: <https://kafedra.management.fmm.kpi.ua/test/?p=1720>

3. STRUCTURAL AND LOGICAL SCHEME OF THE STUDY PROGRAMME



4. SCIENTIFIC COMPONENT

<i>Year of training</i>	<i>The content of the postgraduate student's scientific work</i>	<i>Form of control</i>
1 st year	<p>Choosing and substantiating the subject of own scientific research, determining the content, deadlines, and the scope of the research; selecting and substantiating the methodology for conducting own scientific research, review, and analysis of existing views and approaches that have developed in modern science in the chosen field.</p> <p>Preparation and publication of at least 1 article (usually a review) in scientific professional publications (domestic or foreign) on the research subject; participating in scientific and practical conferences (seminars) with the publication of abstracts.</p>	<p>Approval of the individual plan of the postgraduate student's work at the scientific board of the MMD, reporting on the progress of the postgraduate student's individual work plan performance twice a year.</p>
2 nd year	<p>Conducting own scientific research under the guidance of the supervisor, which involves solving research problems through the use of a set of theoretical and empirical methods.</p> <p>Preparation and publication of at least one article in scientific professional journals (domestic or foreign) on the research subject; participating in scientific and practical conferences (seminars) with the publication of abstracts.</p>	<p>Reporting on the progress of the postgraduate student's individual work plan performance twice a year.</p>
3 rd year	<p>Analysis and generalization of the results of own scientific research; substantiation of the scientific novelty of the obtained results, their theoretical and/or practical significance.</p> <p>Preparation and publication of at least 1 article in scientific professional journals (domestic or foreign) on the research subject; participating in scientific and practical conferences (seminars) with the publication of abstracts.</p>	<p>Reporting on the progress of the postgraduate student's individual work plan performance twice a year.</p>
4 th year	<p>Registration of scientific achievements of the postgraduate student in the form of the thesis, summing up concerning the completeness of coverage of the results of the thesis paper in scientific articles according to the current requirements.</p> <p>Implementation of the obtained results and receipt of supporting documents. Submission of the documents for preliminary examination of the thesis paper. Preparation of a scientific report for attestation (the defense of the thesis).</p>	<p>Reporting on the progress of the postgraduate student's individual plan performance twice a year.</p> <p>Providing an opinion on the scientific novelty, theoretical and practical significance of the thesis paper results.</p>

5. FORM OF ATTESTATION OF HIGHER EDUCATION APPLICANTS

Attestation of higher education applicants for the degree of Doctor of Philosophy according to the educational and scientific programme Management of specialty 073 Management is carried out by a one-time specialized scientific board based on the public defense of scientific achievements in the form of a thesis and ends with the issuance of a standard document on awarding him the degree of Doctor of Philosophy with the award of the qualification "Doctor of Philosophy in Management". The applicant has the right to choose a specialized scientific board.

A prerequisite for admission to the defense is the successful implementation of the applicant's individual work plan (individual curriculum and individual plan of scientific work).

The thesis for the degree of Doctor of Philosophy is an independent comprehensive research that offers a solution to a complex problem, a topical scientific problem in the field of management and administration or at the intersection of several fields, the results of which are an original contribution to management and administration and published in relevant publications.

Qualification work is checked for plagiarism, posted on the website, as well as in the repository of STL of the University in free access, where it remains after the defense. Observance of academic integrity is carried out in accordance with current requirements, including the Regulations on the system of prevention of the academic plagiarism at the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" and the Code of Honor of the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute".

Attestation is carried out openly and publicly.

6. MATRIX OF CONFORMITY OF PROGRAMME COMPETENCIES TO THE COMPONENTS OF THE STUDY PROGRAMME

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

7. MATRIX OF PROVIDING PROGRAMME LEARNING RESULTS BY THE COMPONENTS OF THE STUDY PROGRAMME

	CC 1	CC 2	CC 3	CC 4	CC 5	CC 6	CC 7	CC 8	Scientific component
PLO 1	+		+	+	+	+			+
PLO 2	+		+	+	+	+	+		+
PLO 3	+		+	+	+	+	+	+	+
PLO 4				+			+		+
PLO 5								+	
PLO 6		+							+
PLO 7	+		+	+	+	+			+
PLO 8		+					+		+
PLO 9	+		+	+	+	+			+
PLO 10							+		+
PLO 11	+	+					+		+
PLO 12								+	
PLO 13					+				+
PLO 14						+			+