MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE NATIONAL TECHNICAL UNIVERSITY OF UKRAINE «IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE»

| APPROVED b | У | | | |
|-----------------|--------------|----------|-------------|----|
| The Academic | Council of | | | |
| Igor Sikorsky I | Kyiv Polyte | chnic I | nstitute | |
| (Protocol № | dated « | | 20 | _) |
| The educationa | ıl program h | nas been | n in effect | |
| since the 2021/ | 2022 acade | mic yea | ar | |
| (Order № | dated «_ | » | 20 | _) |

LOGISTICS

EDUCATIONAL AND PROFESSIONAL PROGRAM

of the Second (Master's) Level of Higher Education

by specialty 073 Management

field of knowledge 07 Management and administration

qualification Master of Management

The updated educational program was approved by The Scientific and Methodical Commission of the University in the specialty 073 Management (Protocol № 8 dated «27» January 2021)

PREAMBLE

DEVELOPED by the project team:

Project Team Leader:

AGREED:

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The Department of Management is responsible for teaching of applicants for higher education according to the educational program

The educational program was approved by the Methodical Council of Igor Sikorsky Kyiv Polytechnic Institute (Protocol № ____ dated «___» _____ 20___) and approved by the Academic Council of Igor Sikorsky Kyiv Polytechnic Institute (Protocol № ____ dated «___» _____ 20___)

Changes and additions to the educational program are approved by the Scientific and Methodical Commission of the University in the specialty 073 Management (Protocol № 8 dated «27» January 2021)

| Head of the SM | MCU 073 |
|----------------|---------------------|
| | Victoria DERGACHOVA |

TAKEN INTO ACCOUNT:

- 1. The current standard of higher education in the specialty 073 "Management" for the second (masrer's) level of higher education (Order of the Ministry of Education and Science № 959 dated 10.07.2019)
- 2. Discussion of proposals from employers and students at meetings SMCU 073 (Protocols № 5 dated October, 27, 2020 and № 6 dated November, 24, 2020).
- 3. Discussion of the results of internal self-analysis, proposals from employers and students at meetings of the department (Protocols № 4 from October, 12, 2020, № 5 dated November, 2, 2020, and № 8 dated December, 21, 2020).

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1. PROFILE OF THE EDUCATIONAL PROGRAM in the specialty 073 Management

| Full name of the institution of higher education and faculty Degree of higher education and the title of the qualification in the original language Level in NQF Official name of the educational program Type of diploma and scope of educational National Technical University "Igor Sikorsky Kyiv Pole Faculty of Management Degree – master Qualification – Master of Qualification – Master of Logistics NQF of Ukraine – Level 7 Logistics Master's degree, single, | lytechnic Institute " and Marketing of Management vel 8 ycle | | | | | | |
|---|---|--|--|--|--|--|--|
| education and faculty Degree of higher education and the title of the qualification in the original language Level in NQF Official name of the educational program Type of diploma and | and Marketing of Management vel 8 ycle | | | | | | |
| Paculty of Management Degree of higher education and the title of the qualification in the original language Level in NQF Official name of the educational program Type of diploma and Faculty of Management Degree – master Qualification – Master of Control of | and Marketing of Management vel 8 ycle | | | | | | |
| Degree of higher education and the title of the qualification in the original language Level in NQF Official name of the educational program Type of diploma and | of Management vel 8 ycle | | | | | | |
| education and the title of the qualification in the original language Level in NQF NQF of Ukraine – Level QF-EHEA – second cyneral program Official name of the educational program Type of diploma and | vel 8 ycle | | | | | | |
| the original language Level in NQF NQF of Ukraine – Level QF-EHEA – second cyneral EQF-LLL – Level 7 Official name of the educational program Type of diploma and | vel 8 ycle | | | | | | |
| Level in NQF NQF of Ukraine – Level QF-EHEA – second cyneral EQF-LLL – Level 7 Official name of the educational program Type of diploma and | ycle | | | | | | |
| QF-EHEA – second cy EQF-LLL – Level 7 Official name of the educational program Type of diploma and | ycle | | | | | | |
| Official name of the educational program Type of diploma and | | | | | | | |
| Official name of the educational program Type of diploma and | | | | | | | |
| educational program Type of diploma and | | | | | | | |
| Type of diploma and | | | | | | | |
| | | | | | | | |
| scope of educational Master's degree, single, | | | | | | | |
| | Master's degree, single, 90 credits, educational period 1 year, 4 months | | | | | | |
| program | | | | | | | |
| | e Series ND № 1192611 issued on September 25, | | | | | | |
| | 2017 by the Ministry of Education and Science of Ukraine, the | | | | | | |
| | ion of Ukraine; accreditation period (2013-2023) | | | | | | |
| Prerequisites Presence of bachelor's d | egree | | | | | | |
| Teaching language Ukrainian / English | | | | | | | |
| Validity of the Until the next accreditat | cion | | | | | | |
| educational program | | | | | | | |
| Internet address of | | | | | | | |
| the permanent http://management.fmm | .kpi.ua/ | | | | | | |
| placement of the | r | | | | | | |
| educational program | 1 1 4 1 | | | | | | |
| | he educational program in the field of logistics, which will enable them to | | | | | | |
| | neet the requirements of the labor market in the use | | | | | | |
| 1 | nanagement methods and supply chain organization | | | | | | |
| as a basis for sustainable development of nation | · · · · · · · · · · · · · · · · · · · | | | | | | |
| _ | the educational program | | | | | | |
| Subject area | • 0 | | | | | | |
| Learning objectives: t | nanagement of organizations and their divisions. training of specialists capable of identifying and and problems in the field of management or in the provide conducting research and / or implementing | | | | | | |

| | Theoretical content of the subject area: |
|-----------------------|---|
| | - paradigms, laws, patterns, principles, historical prerequisites for |
| | management development; |
| | - concepts of system, situational, adaptive, antisipative, anti-crisis, |
| | innovative, project management, etc; |
| | - functions, methods, technologies and management decisions in |
| | management. |
| | Methods, techniques and technologies: |
| | - general scientific and specific research methods (calculation and |
| | analytical, economic and statistical, economic and mathematical, expert |
| | evaluation, factual, sociological, documentary, balance etc.); |
| | - methods of realization of management functions (methods of marketing |
| | researches; methods of economic diagnostics; methods of forecasting and |
| | planning; methods of designing of organizational structures of |
| | management; methods of motivation; methods of control; methods of |
| | estimation of social, organizational and economic efficiency in |
| | management); |
| | - management methods (administrative, economic, socio-psychological, |
| | technological); |
| | - technologies for substantiation of management decisions (economic |
| | analysis, simulation modeling, decision tree, etc.). |
| | |
| | Tools and equipment: modern information and communication |
| | equipment, information systems and software products used in |
| | management. |
| Orientation of the | Educational and professional |
| educational program | |
| The main focus of the | \mathcal{C} |
| educational program | Key words: logistics, supply chain management, logistics activity |
| and specialization | |
| Peculiarities of the | Providing up-to-date systematic knowledge, acquisition of applied skills |
| program | and abilities that ensure the implementation of general and professional |
| | competencies in the field of logistics management of enterprises on the basis |
| | of sustainable development. |
| | The uniqueness of the educational program is due to the definition of |
| | |
| | sustainable development of industrial enterprises of the country based on |
| | the study of modern experience and the formation of their own innovative |
| | projects to expand the logistics activities of enterprises. |
| | Training of specialists in the field of logistics is aimed at meeting the needs |
| | of the real sector of the economy. |
| | The concluded agreements on cooperation between the university and |
| | institutions and enterprises give students the opportunity to master the |
| | mechanisms of management decisions and conduct research based on real |
| | economic indicators. |
| | |
| | The program provides opportunities for short-term academic internships |
| | abroad under credit mobility programs. |

| 4 – Sı | uitability of graduates for employment and further study |
|-----------------------|---|
| Suitability for | According to the classifier of professions SC 003:2010: |
| employment | 14 Managers of enterprises, institutions, organizations and their |
| According to the | divisions; |
| classification of | 1475.3 Managers for market research and public opinion polls; |
| professions DK 003: | 1475.4 Managers for business and management; |
| 2010 | 1475.4 Logistics Manager; Supply Managers; Sales managers |
| | 1476.1 Advertising managers; |
| | 1477 Managers for the selection, provision and use of personnel; |
| | 149 Managers in other economic activities; |
| | 1493 Quality system managers; |
| | 1499 Managers in other economic activities, not included in other |
| | groups |
| Further studying | An opportunity to study at the third (educational and scientific) level of |
| | higher education - Doctor of Philosophy. |
| | Acquisition of additional qualifications in the system of postgraduate |
| | education. |
| Tasahina and | 5 – Teaching and assessment |
| Teaching and learning | Forms of study: full-time, part-time, blended learning. Teaching methods: lectures, workshops and seminars, computer |
| learning | workshops, modular tests, undergraduate internships at the company, |
| | individual research and analytical activities of students in the preparation |
| | of calculation, term papers, presentations, abstracts, final qualifying work. |
| | Teaching technologies: problem-oriented, practical, project, independent |
| | learning. |
| | Teaching and learning in the program is based on the application of a |
| | competency-based methodological approach and adherence to the |
| | principles of student-centered learning |
| Assessment | Knowledge testing, tests, term papers, practice reports, reports on computer |
| | workshops, written exams and tests, public defense of qualification work |
| | are used for the current assessment of the level of mastering of educational |
| | components. |
| | Rating systems of assessment with distribution of points according to |
| | reference representations of three types depending on the form of final |
| | control over results of mastering of an educational component are applied: |
| | - with pass/fail test, |
| | |
| | - with an exam (written or oral), |
| | - with the defense of the course work, |
| | - with the protection of the practice report, |
| | - with protection of attestation final work. |
| | |
| | 6 – Program competencies |
| Integral competence | The ability to solve complex tasks and problems in the field of |
| | management or in the learning process, which provide conducting |
| | research and / or implementing innovations and are characterized by |
| | uncertainty of conditions and requirements |
| | General competencies (GC) |
| GC 1 Ability to | conduct research at the appropriate level |

| | Ability to communicate with representatives of other professional groups of different |
|--------|---|
| GC 2 | levels (with experts from other fields of knowledge / types of economic activity) |
| GC 3 | Skills in the use of information and communication technologies |
| GC 4 | Ability to motivate people and move towards a common goal |
| | |
| GC 5 | Ability to act on the basis of ethical considerations (motives) |
| GC 6 | Ability to generate new ideas (creativity) |
| GC 7 | Ability to abstract thinking, analysis and synthesis |
| | Professional competencies (PC) |
| PC 1 | Ability to select and use concepts, methods, and management tools, including in |
| 101 | accordance with defined goals and international standards; |
| | Ability to set values, visions, mission, goals and criteria by which the organization |
| PC 2 | determines further directions of development, to develop and implement appropriate |
| | strategies and plans; |
| PC 3 | Ability for self-development, lifelong learning and effective self-management |
| PC 4 | Ability to effectively use and develop the organization's resources |
| PC 5 | Ability to create and organize effective communications in the management proces |
| PC 6 | Ability to form leadership qualities and demonstrate them in the process of managing |
| | people; |
| PC 7 | Ability to develop projects, manage them, show initiative and entrepreneurship |
| PC 8 | Ability to use psychological technology to work with staff |
| PC 9 | Ability to analyze and structure the problems of the organization, make effective |
| | management decisions and ensure their implementation |
| PC 10 | Ability to manage the organization and its development |
| PC 11 | Ability to analyze the capabilities of potential commercial partners based on market |
| | research to ensure the development of logistics |
| PC 12 | Ability to form strategies for logistics activities of enterprises on the basis of |
| | sustainable development, taking into account the potential of digital transformations in |
| | the world economy |
| PC 13 | Ability to organize, plan logistics activities of enterprises taking into account current |
| | trends in the world economy and using promising business models |
| PC 14 | Ability to find and evaluate new market opportunities for the development of the |
| | organization, promising areas of supply chain development, to substantiate the |
| | mechanisms of transformation of management systems based on integration |
| DC 15 | management decisions |
| PC 15 | Ability to develop, economically justify and implement in the practice of the |
| | organization of project solutions to ensure the efficient use of various types of |
| | resources, increase profitability and form the preconditions for the development of the |
| | potential of logistics activities |
| DI O 1 | 7 – Program learning outcomes |
| PLO 1 | Critically comprehend, select and use the necessary scientific, methodological and |
| DI O 2 | analytical tools for management in unpredictable conditions; |
| PLO 2 | Identify problems in the organization and justify methods of solving them; |

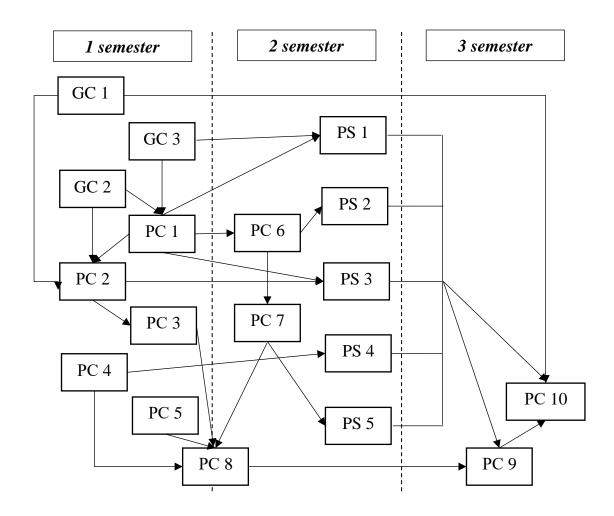
| PLO 3 | Develop the effective management systems for organizations; | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|
| PLO 4 | Substantiate and manage projects, generate business ideas; | | | | | | | |
| PLO 5 | Plan the activities of the organization in strategic and tactical sections; | | | | | | | |
| PLO 6 | To have the skills to make, justify and ensure the implementation of management | | | | | | | |
| | decisions in unpredictable conditions, taking into account the requirements of | | | | | | | |
| | applicable law, ethical considerations and social responsibility; | | | | | | | |
| PLO 7 | Organize and carry out effective communication within the team, with representatives | | | | | | | |
| | of various professional groups and in the international context; | | | | | | | |
| PLO 8 | Use specialized software and information systems to solve management problems of | | | | | | | |
| | the organization; | | | | | | | |
| PLO 9 | Be able to communicate in professional and scientific circles in the state and foreign | | | | | | | |
| | languages; | | | | | | | |
| PLO 10 | Demonstrate leadership skills and ability to work in a team, interact with people, | | | | | | | |
| | influence their behavior to solve professional problems; | | | | | | | |
| PLO 11 | Provide personal professional development and planning your own time; | | | | | | | |
| PLO 12 | Be able to delegate authority and management of the organization (unit); | | | | | | | |
| PLO 13 | Be able to plan and implement information, methodological, material, financial and | | | | | | | |
| | personnel support of the organization (unit); | | | | | | | |
| PLO 14 | Determine and develop optimal forms of organization of logistics activities of | | | | | | | |
| | enterprises, taking into account the peculiarities of doing business, the impact of digital | | | | | | | |
| | information on the implementation of economic activity; | | | | | | | |
| PLO 15 | Be able to identify patterns, conditions and factors of national and international nature | | | | | | | |
| | that determine the formation of effective strategies for the development of logistics | | | | | | | |
| DI O 16 | activities; | | | | | | | |
| PLO 16 | Identify and analyze the possible impact of modern logistics trends in the world | | | | | | | |
| | economy on the functioning of national economies. | | | | | | | |
| C CC | 8 – Resource support for program implementation | | | | | | | |
| Staffing | Scientific and pedagogical staff involved in the implementation of the educational program meets the requirements of the Resolution of the | | | | | | | |
| | Cabinet of Ministers of Ukraine dated 30.12.2015 № 1187 (current) as | | | | | | | |
| | amended on 23.05.2018 № 347. | | | | | | | |
| Material an | nd technical Educational and scientific activities for the teaching of EP applicants are | | | | | | | |
| support | provided by the material and technical base of Igor Sikorsky Kyiv | | | | | | | |
| | Polytechnic Institute, which meets the licensing requirements and | | | | | | | |
| | requirements for educational activities. The university has a developed social infrastructure, including educational buildings, a library. The | | | | | | | |
| | Department of Management has an educational multimedia laboratory | | | | | | | |
| | equipped with modern computers, 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, | | | | | | | |
| | provided by the activities of the university. There is a Department of Social and Psychological Work to support the mental health of applicants. | | | | | | | |
| | Social and I sychological work to support the mental health of applicants. | | | | | | | |

| Information, educational and methodical support | The general library fund of book paper copies of the Igor Sikorsky Kyiv Polytechnic Institute library, as well as electronic resources, including the Electronic Archive of Scientific and Educational Materials "ELAKPI", subscribed to various databases, free access to the Internet. Scientific and educational, educational and methodical materials of the internal network of the University "Electronic Campus", personal cabinets of teaching staff |
|---|--|
| | on the website of the department. 9 – Academic mobility |
| National credit mobility | Possibility of concluding agreements on academic mobility |
| International credit mobility | Interuniversity agreement within the framework of the KA1 program dated 24/07/2019 with the University of Jena (Germany) Interuniversity agreement within the framework of KA1 program, October 2017 with Poznan University of Technology (Republic of Poland) Agreement on cooperation with the Technological University of Varna (Republic of Bulgaria) 70170/0300 / 1-0 dated 5/12/2019 MEVLANA EXCHANGE PROGRAM PROTOCOL with Selcuk University (Republic of Turkey) |
| Teaching of foreign applicants for higher education | Teaching is carried out in English |

2. LIST OF COMPONENTS OF THE EDUCATIONAL PROGRAM

| Code | Components of the educational program (academic disciplines, practices, qualification work) | Number of credits | Form of final control | | | | | | | |
|-----------------------------|---|-------------------|-----------------------|--|--|--|--|--|--|--|
| 1 | 2 | 3 | 4 | | | | | | | |
| | 1. Compulsory components | | | | | | | | | |
| 1.1. General training cycle | | | | | | | | | | |
| GC 1 | Practical Course of Foreign Language Business Communication | 3 | pass/fail test | | | | | | | |
| GC 2 | Financial Management | 4,5 | exam | | | | | | | |
| GC 3 | Design of Integration Structures | 4 | pass/fail test | | | | | | | |
| | 1.2. Professional training cycle | | | | | | | | | |
| PC 1 | Logistics Inventory Management | 5 | exam | | | | | | | |
| PC 2 | Logistics Management | 4 | exam | | | | | | | |
| PC 3 | Course Work on Logistics Management | 1 | pass/fail test | | | | | | | |
| PC 4 | Design of Logistics Infrastructure Facilities | 4 | pass/fail test | | | | | | | |
| PC 5 | Digital Logistics | 4 | pass/fail test | | | | | | | |
| PC 6 | Supply Chain Management | 5 | exam | | | | | | | |
| PC 7 | Coursework on Supply Chain Management | 1 | pass/fail test | | | | | | | |
| PC 8 | Scientific Work on the topic of Master's Thesis | 4 | pass/fail test | | | | | | | |
| PC 9 | Pre-diploma Practice | 14 | pass/fail test | | | | | | | |
| PC 10 | Work on a Master's Thesis | 12 | defense | | | | | | | |
| | 2. Selective components | | | | | | | | | |
| PS 1 | Educational component 1 of the F-Catalog | 5,5 | exam | | | | | | | |
| PS 2 | Educational component 2 of the F-Catalog | 5,5 | exam | | | | | | | |
| PS 3 | Educational component 3 of the F-Catalog | 4,5 | pass/fail test | | | | | | | |
| PS 4 | Educational component 4 of the F-Catalog | 4,5 | pass/fail test | | | | | | | |
| PS 5 | Educational component 5 of the F-Catalog | 4,5 | pass/fail test | | | | | | | |
| | Total volume of compulsory components: | 6 | 5,5 | | | | | | | |
| | Total volume selective components: | 2 | 4,5 | | | | | | | |
| Total volu | me of educational components that ensure the acquisition of competencies of certain SHE | 6 | 5,5 | | | | | | | |
| TOTA | L VOLUME OF THE EDUCATIONAL PROGRAM | ! | 90 | | | | | | | |

3. STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL PROGRAM



4. CERTIFICATION FORM OF APPLICANTS OF HIGHER EDUCATION

Certification of applicants for higher education under the educational program "Logistics" is carried out in the form of public defense of qualification work.

Qualification work should involve solving a complex task or problem in the field of management, a task or problem in the field of management that requires implementation of research and / or innovation and is characterized by complexity and uncertainty of conditions, using theories and methods of economics.

Qualification work should not contain academic plagiarism, falsification, fabrication.

Qualification work must be published on the official website of the higher education institution or its subdivision, or in the repository of the higher education institution.

5. MATRIXES OF COMPATIBILITY OF PROGRAM COMPETENCIES TO THE COMPONENTS OF THE EDUCATIONAL PROGRAM

| | GC 1 | GC 2 | GC 3 | PC 1 | PC 2 | PC 3 | PC 4 | PC 5 | PC 6 | PC 7 | PC 8 | PC 9 | PC 10 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 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 | | | | | | | | | | | | + | |
| PC 9 | | + | | + | | | | | + | + | | + | + |
| PC 10 | | | | | | | + | + | | | | | + |
| PC 11 | | | | | | | | | + | + | | + | + |
| PC 12 | | | | | + | + | | + | + | + | + | + | + |
| PC 13 | | | | | + | + | + | + | + | + | + | | + |
| PC 14 | | + | | + | + | + | + | + | + | + | + | + | + |
| PC 15 | | + | | + | + | + | + | | + | + | | + | + |

6. MATRIXES OF PROVIDING PROGRAM LEARNING RESULTS BY COMPONENTS OF THE EDUCATIONAL PROGRAM

| | GC 1 | GC 2 | GC 3 | PC 1 | PC 2 | PC 3 | PC 4 | PC 5 | PC 6 | PC 7 | PC 8 | PC 9 | PC 10 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 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 | | + | + | + | + | + | + | | + | + | + | + | + |
| PLO 15 | + | + | | + | + | + | + | + | + | + | + | + | + |
| PLO 16 | | + | | + | + | + | + | + | + | + | + | + | + |