МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
ХАРКІВСЬКИЙ НАЦІОНАЛЬНИЙ ЕКОНОМІЧНИЙ УНІВЕРСИТЕТ
ІМЕНІ СЕМЕНА КУЗНЕЦЯ

УХВАЛЕНО
Рішенням вченої ради
Харківського національного
економічного університету
імені Семена Кузнеця
від 23.05.2023 р. протокол № 6

ВВЕДЕНО В ДІЮ
Наказом ректора Харківського
національного економічного університету
імені Семена Кузнеця
від 23.05.2023 р. № 144

_____ Володимир ПОНОМАРЕНКО

ОСВІТНЬО-ПРОФЕСІЙНА ПРОГРАМА
«ІНФОРМАЦІЙНІ СИСТЕМИ ТА ТЕХНОЛОГІЇ»

РІВЕНЬ ВИЩОЇ ОСВІТИ   Другий (магістерський)

СТУПІНЬ ВИЩОЇ ОСВІТИ   Магістр

ГАЛУЗЬ ЗНАНЬ   12 Інформаційні технології

СПЕЦІАЛЬНІСТЬ   126 Інформаційні системи та технології

Харків, 2023

THE PREAMBLE

Composition of the working group of the educational program "Information systems andtechnologies":

Kolgatin Oleksandr Gennadiyovych - Doctor of Pedagogical Sciences, Candidate of Technical Sciences, Professor, Professor of the Department of Information Systems.

Iryna Oleksandrivna Zolotaryova - candidate of economic sciences, associate professor, professor of the department of information systems.

Besedovsky Oleksiy Mykolayovych – candidate of economic sciences, associate professor, associate professor of the Department of Information Systems.

Horban Laki Aromasivna - higher education

recipient Volodymyr Oleksandrovich Metielov, head educational

of university programs of the IT company Grid Dynamics in Ukraine, candidate of technical sciences, associate professor.

Considered at the meeting of the Department of Information Systems, protocol No. 9, dated February 14, 2023.

Considered by the Academic Council of the Faculty of Information Technologies, protocol No. 5, dated February 28, 2023.

The educational and professional program "Information systems and technologies" has been updated on the basis of:

1. Legislative and regulatory acts: Laws of Ukraine "Pro education", "About higher education", National Qualifications Framework, National Classifier of Ukraine DK 003:2010 "Profession Classifier".

2. Standard of higher education of Ukraine in specialty 126 "Information systems and technologies" of the field of knowledge 12 "Information technologies" for the second (master's) level of higher education (order of the Ministry of Education and Science of Ukraine dated 12.30.2021 No. 1497).

3. Analysis of the labor market, taking into account the regional context.

4. Study of domestic and foreign experience.

5. Employers' proposals.

Reviews of external stakeholders (attached).

I. GENERAL CHARACTERISTICS

Level of higher education	Second (master's) level
Degree of higher education	Master's degree
Branch of knowledge	12 Information technologies
Specialty	126 Information systems and technologies
Educational program	Information Systems andTechnologies
Forms of acquisition of education, the amount of the educational program in credits ECTS and deadlines teaching	Full-time (full-time) form – 90 credits, 1 year 4 months;
Availability of accreditation	National Agency for Quality Assurance of Higher Education: DecisionNo. 3(20).1.10 dated February 17, 2020. Certificate of accreditation of the educational program No. 229 dated February 17, 2020; The validity period of accreditation is until February 17, 2025.
Language(s) of instruction / assessment	Ukrainian / Ukrainian
Structural unit responsible for OP	Department of Information Systems
Requirements to enrollment	In order to successfully master the master's educational program, the applicant must have a higher education of the first (bachelor's)level or second (master's) level or the educational and qualificationlevel of a specialist and the ability to master knowledge, skills and abilities in the field of information technologies, majoring in information systems and technologies. The rules and terms of admission are posted on the website of the Khnei Universitynamed after S. Kuznets via the link https://www.hneu.edu.ua/normatyvnidokumenty/
Restrictions on forms of education	There is no
Educational qualification	Master of Information Systems and Technologies
Qualification(s) professional	Absent
Qualification in diploma	Degree of higher education - Master's degree Specialty - 126 Information systems and technologies

Educational purpose programs	The purpose of the educational program is to implement the training of students of higher education in accordance with the standard of higher education of Ukraine in specialty 126 "Information systems and technologies" for of the second (master's) level of higher education, taking into account the requirements of the labor market of the Kharkiv region and the peculiarities of the educational process of the Kharkiv National University of Economics named after S. Kuznets
Focus and features (uniqueness) programs	A feature of the educational program is that students of higher education have the opportunity to acquire competencies in the analysis and optimization of business processes of IT enterprises and automated information systems of enterprises and business structures; graduates possess methods and means of building computer programs, use modern database management systems and data access technologies to create data processing and analysis systems, design architectural components of software solutions for complex information systems.
Description of the subject region	**Object(s) of study and/or activity (phenomena, phenomenon or problems under study):**Information Technology; principles, methods and means of creating and supporting information systems. **Learning goals:**formation and development of a complex of knowledge and skills and skills necessary for solving problems of a research and innovation nature in the field information systems and technologies (IST). **Theoretical content of the subject area:**concepts, principles and concepts of creation and functioning of organizational and technical systems and information processing technologies using technical and software tools. **Methods, techniques and technologies:**methods, techniques, technologies information, mathematical and computer modeling, system analysis, information security, design, organizational and managerial activities. **Tools and equipment:**computer equipment, technical tools, software and technical complexes, network equipment.
Academic and professional rights	Obtaining education at the third (educational and scientific) level of higher education. Acquisition of additional qualifications in the adult education system.
Employment graduates	Professional activity as a specialist in the development of mathematical, information and software of information systems, in the field of information technologies, as well as an administrator of databases and systems. Graduates can work in professions according to the National Classifier of Professions DK 003:2010: 213 – professionals in the field of computerization; 2131.2 – developers of computing systems; 2132.2 – developers of computer programs; 2139.2 - professionals in other fields of computing. Places of employment: educational institutions; research, design and construction, production, state and private enterprises (specialists of IT departments or IT enterprises).

II - LIST OF COMPETENCES OF THE GRADUATE

Integral competence	The ability to solve problems of a research and innovation nature in the field of information systems and technologies.
General competence	ZK01. Ability to abstract thinking, analysis and synthesis. ZK02. Ability to communicate in a foreign language. ZK03. Ability to communicate with representatives of professional groupers of different levels (with experts from other fields of knowledge/types of economic activity). ZK04. Ability to develop and manage projects. ZK05. The ability to evaluate and ensure the quality of the work performed.
Professionals competence	SK01. Ability to develop and apply IST necessary for solving strategic and current tasks. SK02. Ability to formulate requirements for life cycle stages of service-oriented information systems. SK03. Ability to design information systems taking into account the specifics of their purpose, incomplete/insufficient information and conflicting requirements. SK04. The ability to develop mathematical, information and computer models of objects and informatization processes. SK05. The ability to use modern data analysis technologies to optimize processes in information systems. SK06. Ability to manage information risks based on the concept of information security. SK07. Develop and implement innovative projects in the field of ICT. SK08. Carry out reengineering of applied information systems and business processes.

In order to ensure the correlation of the defined competencies with the classification of competences of the NRC, the correspondence matrix of the determined competencies and descriptors of the NRC is used, which is an informational appendix (Table 1 of the Explanatory Note).

III – NORMATIVE CONTENT OF THE TRAINING OF HIGHER GRADUATE GRADUATE EDUCATION FORMULATED IN TERMS OF LEARNING OUTCOMES FOR SPECIALTY 126 "INFORMATION SYSTEMS AND TECHNOLOGIES"

PH01. Search for necessary information in scientific and technical literature, databases, other sources, analyze and evaluate this information.

PH02. Communicate freely in national and foreign languages in scientific, industrial and social spheres of activity.

PH03 Make effective decisions on the problems of information infrastructure development, creation and application of IT.

PH04. Manage ICT development, implementation and operation processes that are complex, unpredictable and require new strategic andteam approaches.

PH05. Determine the requirements for ICT based on the analysis of business processesand analysis of the needs of interested parties, develop technical tasks.

PH06. Justify the choice of technical and software solutions, taking into account their interaction and potential impact on solving organizational problems, organize their implementation and use.

PH07. Make a reasonable choice of project solutions and design a service-oriented information architecture of the enterprise (institution, organization, etc.).

PH08. Develop models of information processes and systems of various classes, use methods of modeling, formalization, algorithmization and implementation of models using modern computer tools.

PH09. Develop and use data warehouses, perform data analysis to support decision-making.

PH10. Provide high-quality cyber protection IST, plan, to organize, implement and monitor the functioning of informationprotection systems.

PH11. Solve the problems of digital transformation in new or unknown environments based on specialized conceptual knowledge, including modern scientific achievements in the field of information technology, research and integration of knowledge from various fields.

PH12. Improve the information system based on the analysis of businessprocesses.

IV. STRUCTURE OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM MASTER'S TRAINING

4.1. PROGRAM STRUCTURE AND EDUCATIONAL COMPONENTS

No	Educational components (educational disciplines, course projects (works), practices, qualification work)	Credits ECTC	Structure, %
	GENERAL TRAINING CYCLE		
1	*MANDATORY EDUCATIONAL COMPONENTS*	*9*	*10%*
2	*ELECTIVE EDUCATIONAL COMPONENTS*	*10*	*11%*
	VOCATIONAL TRAINING CYCLE		
3	*MANDATORY EDUCATIONAL COMPONENTS*	*56*	*62%*
4	*ELECTIVE EDUCATIONAL COMPONENTS*	*15*	*17%*
	THE TOTAL NUMBER OF *including: selective component*	***90*** *25*	***100%*** *28%*

Code OK	Educational components (educational disciplines, course projects (works), practices, qualification work)	Credits ECTC	Forms final control
	GENERAL TRAINING CYCLE		
	MANDATORY EDUCATIONAL COMPONENTS		
OK1	FUNDAMENTALS OF METHODOLOGY AND ORGANIZATION OF SCIENTIFIC RESEARCH (English)	4	Test
OK2	ANALYSIS AND OPTIMIZATION BUSINESS PROCESSES ENTERPRISES	5	Exam
	ELECTIVE EDUCATIONAL COMPONENTS		
VK1	MAG-MINOR	5	Test
VK2	MAG-MINOR	5	Test
	VOCATIONAL TRAINING CYCLE		
	MANDATORY EDUCATIONAL COMPONENTS		
OK3	MANAGEMENT AND QUALITY MANAGEMENT OF BUSINESS PROCESSES OF IT ENTERPRISES	5	Test
OK4	DEVELOPMENT AND IMPLEMENTATION OF IS	5	Exam
OK5	IS STRATEGY	5	Exam
OK6	ADMINISTRATIVE IS AND DATA STORAGE	5	Test
OK7	IS SECURITY	5	Test
OK8	COURSE WORK	1	Coursework
OK9	COMPLEX TRAINING	3	Report
OK10	PRE-DIPLOMA PRACTICE	12	Report
OK11	GRADUATE WORK	15	Graduate work
	ELECTIVE EDUCATIONAL COMPONENTS		
VK3	Major 1	5	Exam
VK4	Major 2	5	Exam
VK5	Major 3	5	Exam

4.2. ELECTIVE COMPONENT OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM

The elective component of the curriculum of the educational program consistsof: MA-MINORS and MAJORS.

MA-MINOR is a conventional name for elective subjects of preparation for a master's degree (MINOR for masters). The essence of MA-MINORS is the free choice of academic disciplines in such directions that reflect the interests of higher education seekers, their preferences and plans for future employment.
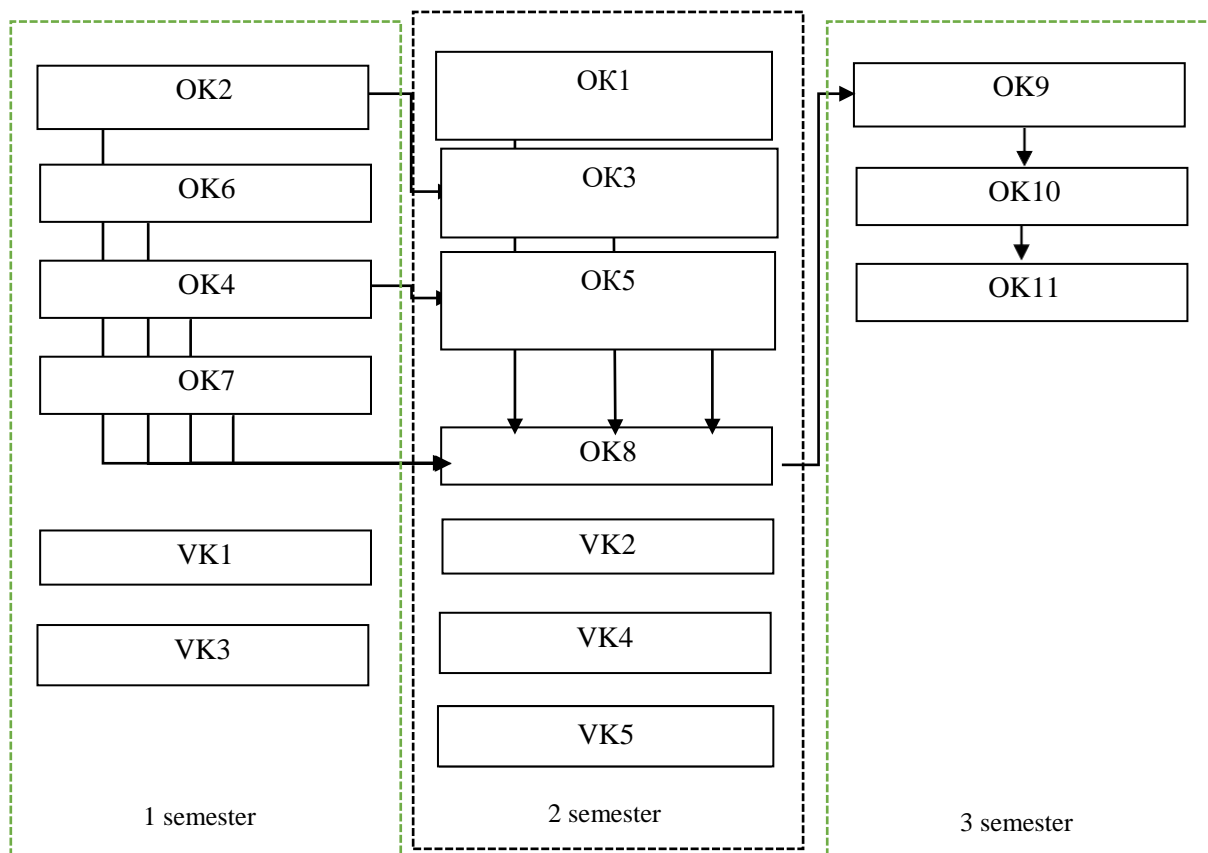
MA-MINOR is a mandatory component of educational programs. The scope of the MA-MINOR discipline is 5 ECTS credits. The form of final control is the offset. The total scope of the MA minor disciplines is 10 ECTS credits.

Majors are the conventional name for optional academic disciplines. The essence of majors is a free choice of academic disciplines that reflect the interests of higher education seekers, their preferences and plans for future employment and take into account the specifics of the specialty. Majors are a mandatory component of educational programs. The scope of the Major discipline is 5 ECTS credits. The form of final control is an exam. The total amount of Major disciplines is 15 ECTS credits.

Elective educational disciplines do not form the learning outcomes stipulated by the standard of higher education for the corresponding level, but can deepen certain of them and develop general competencies.

4.3. STRUCTURAL AND LOGICAL SCHEME OF THE TRAINING OF HIGH SCHOOL ATTENDERS EDUCATION

educational and professional program "Information systems and technologies" of the second (master's) level of higher education

1 semester	2 semester	3 semester
OK2	OK1	OK9
OK6	OK3	OK10
OK4	OK5	OK11
OK7	OK8	
VK1	VK2	
VK3	VK4	
	VK5	

V. FORMS OF CERTIFICATION OF HIGHER EDUCATION ACQUIRES

Attestation forms university graduates education	Certification is carried out in the form public protection qualification work.
Requirements to qualification work	The qualification work is a master's thesis. Qualification work involves the independent solution of a complex problem in the field of information systems and technologies, which is accompanied by conducting research and/or using innovative approaches. The qualification work must not contain academic plagiarism, fabrication and falsification. The qualification work must be published on the official website of the institution of higher education or its subdivision, or in the repository of the institution of higher education. Publication of qualification works containing information with restricted access should be carried out in accordance with the requirements of the law. Qualification work must meet other requirements established by law.
Requirements to public protection	Public protection qualification work accepts examination board, which may include representatives of employers and their associations. Protection takes place openly and publicly. Applicants of higher education who have fulfilled all the requirements of the educational program and curriculum and have submitted a master's thesis to the examination board for consideration are admitted to the defense. In the process of completing and defending the qualification work, the graduate must demonstrate the acquired competencies and learning results, based on modern scientific methods, logically present his views on the research topic, draw reasonable conclusions and formulate specific proposals and recommendations regarding the solved problem, as well as identify the author's inclination to scientific or practical activity. Based on the results of the public defense of the qualification work, the examination commission makes a decision on awarding the higher education applicant with a qualification in specialty 126 "Information systems and technologies", which is announced on the day of the defense of the qualification work.

VI.   REQUIREMENTS FOR THE PRESENCE OF AN INTERNAL SYSTEM QUALITY ASSURANCE OF HIGHER EDUCATION

The requirements for the internal quality assurance system at the University are developed on the basis of European standards and recommendations for quality assurance of higher education (ESG), Article 16 of the Law of Ukraine "On Higher Education", Standard of Higher Education in the specialty 126 Information systems andtechnologies.

Policy regarding quality assurance higher education	The main principles of internal quality assurance of education at the KHNEU named after S. Kuznets: responsibility; compliance; adequacy; autonomy; measurability; academic culture; openness The main procedures for internal quality assurance of education at Khnei National University named after S. Kuznets: formalization of quality policy, strategic goals, tasks of continuous quality improvement; ensuring publicity of information about educational programs, degrees of higher education and qualifications; ensuring compliance with academic integrity by employees of higher education institutions and students of higher education; preparation and conduct of marketing-monitoring and social- psychological studies to determine the needs of the labor market, the requirements of stakeholders of higher education, the quality of the provision of educational services and satisfaction with the quality of educational activities and the quality of education; involvement of higher education stakeholders (higher education students, employers, representatives of the academic community, etc.) before making decisions in the areas of internal quality assurance; external evaluation of the quality of activity of KhNEU named after S. Kuznets based on the results of participation in national and international rankings of higher educational institutions, fulfillment of Licensing requirements, accreditation. Directions: development, approval, monitoring and periodic review of educational programs; ensuring professional development of pedagogical, scientific and scientific- pedagogical workers; ensuring student-centered learning, teaching and assessment of higher education applicants; ensuring the availability of the necessary resouforcr ethse organization educational process; ensuring the availability of systems foinrformative effective management of the educational process.

Quality assurance development, approval, monitoring, viewing and educational updates programs	Monitoring and periodic review of educational programs is carried out in accordance with the current regulations at Khnei National University named after S. Kuznetsa. The review of educational programs is carried out on the basis of the analysis of meeting the educational needs of those seeking higher education: the possibility of building an individual learning trajectory, observing academic freedoms in the educational process, satisfaction with the quality of the educational program, etc.; employers: quality of formation of general and professional competences, actual and social skills (soft skills); other stakeholders. To review educational programs, the following are used: online survey, focus group research, document analysis, situation analysis, by group in accordance with the requirements for the structure and content of the educational program. Periodicity of revision of educational programs is carried out: a) annually according to the results of monitoring; b) after completion of the educational program by higher education students, c) in the event of a change in the legislative and regulatory framework.
Software enrollment, achievement, recognition and certification acquirers	Evaluation of higher education applicants is consistent, transparent and is conducted in accordance with the procedures established by the University in accordance with regulations. The annual assessment of education seekers is carried out in accordance with the forms of control determined by the educational program; the procedure for evaluating the results of training, which is highlighted in the work programs of educational disciplines, work plans (technological maps) of educational disciplines, syllabi of educational disciplines; accounting of learning results, which is conducted using the information environment of the Personal Learning System (PNS) of the University. Evaluation of higher education applicants is carried out on the basis of a 100-point accumulative point-rating system
Quality assurance student-centered teaching, teaching and assessment	The planning, distribution and provision of educational resources and provision of support for higher education students take into account their needs and the principles of student-centered learning. Internal quality assurance of higher education ensures that all necessary resources meet the learning objectives, are publicly available, and higher education seekers are informed of their availability.
Quality assurance scientifically-pedagogical employees	The annual rating evaluation of the activity of scientific and pedagogical workers, departments and faculties of the University is carried out through the use of evaluation mechanisms and self-assessment of the effectiveness of scientific and pedagogical activity, its focus on the priorities of the development of the national system of higher education, the development strategy of the University, personal professional development of scientific and pedagogical workers. The results of the rating evaluation are summarized based on the results of activities achieved during the calendar year. The results of the annual evaluation of scientific and pedagogical workers, departments and faculties are announced at the meeting of the academic council of the University.
Resourceful software educational process (educational resources and support of	The institution of higher education provides the necessary educational process and available resources (personnel, methodological, material, informational, etc.) and provides appropriate support to those seeking higher education. Organizational and methodical support for the independent work of students of higher education consists in the development of methodical, didactic, instructional materials, providing the opportunity to form, consolidate, deepen and systematize the knowledge and skills

acquirers higher education)	acquired during classroom classes, to carry out self-training and self-monitoring of the mastery of the educational and professional program and is implemented through the Personal the educational system of Khnei National University named after S. Kuznetsa.
Informational software (informative management)	In order to manage the educational process, an effective policy in the field of information management and a corresponding integrated information system for managing the educational process have been developed. This system provides automation of the main functions of managing the educational process, in particular: ensuring the introduction campaign, planning and organizing the educational process; access to educational resources; accounting and analysis of success of higher education applicants; administration of the main and auxiliary processes of providing educational activities; personnel management, etc.

EXPLANATORY NOTE

The correspondence matrix of the defined competencies to the NQF descriptors and the correspondence matrix of the defined learning outcomes and competencies are presented in Tables 1 and 2.

Table 1

Correspondence matrix of defined competences to NRK descriptors

Classification competencies for NRK		Knowledge **Zn1.** Specialized conceptual knowledge that include modern scientific gains in sphere professional activity or fields of knowledge and is the basis for original thinking and carrying out of research **Zn2.** Critical understanding problems in industry and on industry boundaries of knowledge	Skill **Mind1.** Specialized ability/skills problem solving necessary for carrying out research and/or proceedings innovative activity with a goal development of new knowledge and procedures **Mind2.** Ability integrate knowledge and to solve complex problems in broad or multidisciplinary ones contexts **Mind3.** Ability solve problems in new orstrangers environments for presence of incomplete or limited information taking into account the aspects social and ethical responsibility	Communication **K1.** Understandable and unambiguous reporting own knowledge, conclusions and arguments to specialists and non-specialists, in particular, to persons who are studying **K2.** Using preignas in professional activity	Autonomy and responsibility **AB1.** Management workers or educational processes that are complex, unpredictable and need new strategic ones approaches **AB2.** Responsibility for contribution to professional knowledge and practices and/or assessment results team activities and collectives **AB3.** Ability continue learning with high degree of autonomy
General competences					
ZK01	Ability to abstract thinking, analysis and synthesis	Zn1, Zn2	Mind1, Mind2	K1	AB3
ZK02	Ability communicate in a foreign language.			K2	AB3
ZK03	Ability to communicate with representatives of others professional groups of different levels (with experts from other fields of knowledge/types ofeconomic activity).	Zn1, Zn2	Mind1, Mind3	K1	
ZK04	Ability elaborate projects and manage them		Mind1	K1	AB1, AB2
ZK05	The ability to evaluate and provide quality performed works in the field of ICT.	Zn2	Mind3		AB2
Special (professional, subject) competences					
SK01	Ability to develop and apply IST necessary for solution strategic and current tasks	Zn1	Mind2, Mind3		AB1

SK02	Ability formulate requirements to stages vital cycle service oriented information systems.	Zn1	Mind2, Mind3		
SK03	Ability design informative systems wit taking into account features their appointment, incomplete / insufficient information and conflicting requirements.	Zn2	Mind1, Mind3		AB1
SK04	Ability elaborate mathematical, information and computer models objects and processes informatization	Zn1	Mind3		AB1
SK05	Ability use modern analysis technologies data to optimize processes in information systems.	Zn1	Um1, Um2, Um3		AB 3
SK06	Ability manage information risks based on the concept information security.	Zn2	Mind 2	K1	AB1
SK07	Elaborate an implement innovative projects in the field of ICT.	d Zn1, Zn2	Mind1, Mind2		AB1
SK08	Carry out applied reengineering information systems and business processes.	Zn1, Zn2	Mind1, Mind3	K1	

Table 2

Correspondence matrix of defined learning outcomes, competencies and educational components

Program learning outcomes	Competences													
	Integral on competentness	General competences					Special competences							
		ZK01	ZK02	ZK03	ZK04	ZK05	SK01	SK02	SK03	SK04	SK05	SK06	SK07	SK08
PH01. Search for necessary information in scientific and technical literature, databases, other sources, analyze and evaluate this information.	OK1 OK2 OK8 OK9 OK10 OK11	OK1 OK2	OK1											OK1 OK2 OK3
PH02. Communicate freely in national and foreign languages in scientific, industrial and social spheres of activity.			OK1	OK2 OK3 OK8 OK9 OK10 OK11										
PH03 Make effective decisions on the problems of information infrastructure development, creation and application of IT.					OK3 OK4 OK5	OK3 OK4 OK5	OK2 OK4 OK5	OK3 OK4 OK5	OK4 OK5			OK4 OK7		OK2 OK3 OK5
PH04. Manage processes development, implementation and exploitation in the field of ICT, which are complex, unpredictable and require new strategic and team approaches.				OK2 OK3 OK8 OK10 OK11	OK3	OK3	OK2 OK3	OK3 OK4					OK2 OK3 OK5	
PH05. Determine the requirements for ICT based on the analysis of business processes and analysis of the needs of interested parties, develop technical tasks.				OK2 OK3 OK8 OK9 OK10 OK11	OK3 OK8 OK11	OK3 OK8 OK11		OK3 OK4						OK2 OK3
PH06. Justify the choice of technical and software solutions, taking into account their interaction and potential impact on solving organizational problems, organize their implementation and use.					OK3 OK4	OK3 OK4	OK4	OK4					OK3 OK4 OK5	OK4 OK3

Program learning outcomes	Competences													
	Integration competentness	General competences					Special competences							
		ZK01	ZK02	ZK03	ZK04	ZK05	SK01	SK02	SK03	SK04	SK05	SK06	SK07	SK08
PH07. Make a reasonable choice of project solutions and design a service-oriented information architecture of the enterprise (institution, organization, etc.).		OK1 OK6 OK5			OK6 OK3 OK5	OK6 OK3 OK5	OK6 OK5	OK6 OK4 OK5	OK6 OK4 OK5					
PH08. Develop models of information processes and systems of various classes, use methods of modeling, formalization, algorithmization and implementation of models using modern computer tools.	OK2 OK8 OK10 OK11	OK1 OK2								OK2 OK5	OK2 OK5			OK2
PH09. Develop and use data warehouses, perform data analysis to support decision-making.	OK6 OK8 OK10 OK11									OK2 OK6	OK2 OK6			
PH10. Provide high-quality cyber protection of ICT, plan, organize, implement and monitor the functioning of information protection systems.						OK3 OK7			OK4 OK7			OK7		
PH11. to solve tasks digital transformation in new ones or unknown environments based on specialized conceptual knowledge, including modern scientific achievements in the field of information technologies, research and integration of knowledge from various fields.	OK5 OK8 OK10 OK11	OK1 OK2 OK5	OK1 OK5	OK2 OK8 OK9 OK10 OK11			OK2 OK4 OK5			OK2 OK5	OK2 OK5		OK2 OK3 OK5	
PH12. Improve the information system based on the analysis of business processes.	OK2 OK5 OK8 OK11	OK2 OK5		OK2 OK3 OK8 OK9 OK10 OK11		OK3 OK8 OK11		OK3 OK4	OK2 OK5	OK2 OK5	OK2 OK6 OK5	OK7		OK2 OK3 OK5

Guarantor OP   (*signed)*   Oleksandr KOLGATIN

ЛИСТ ПОГОДЖЕННЯ
Освітньо-професійної програми «Інформаційні системи та технології»

Назва структурного / функціонального підрозділу / посадова особа	Підпис
1. Навчально-методичний відділ	
2. Відділ забезпечення якості освіти	
3. Завідувач випускової кафедри	
4. Проректор з навчально-методичної роботи	

Grid Dynamics
GRID DYNAMICS UKRAINE LTD.

ТОВ «ГРІД ДІНАМІКС УКРАЇНА»
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буд. 3-Б, офіс 19.
Поштова адреса: 61023, м. Харків,
вул. Весніна, 5

РЕЦЕНЗІЯ

на освітню програму

"Інформаційні системи та технології"

за спеціальністю 126 - "Інформаційні системи та технології"

другого (магістерського) рівня освіти

Харківський національний економічний університет імені С. Кузнеця має багаторічний досвід підготовки фахівців у галузі ІТ-технологій. Особливістю навального процесу є його практична зорієнтованість, поєднання глибокої фундаментальної та технологічної підготовки із розумінням підходів до вирішення конкретних завдань бізнесу. Саме такий стиль підготовки, на наш погляд, максимально відповідає завданням і суті відносно нової спеціальності 126 - "Інформаційні системи та технології". Такі фахівці вкрай потрібні в сучасних умовах розвитку ІТ-бізнесу в Україні, що й визначає актуальність реалізації освітньої програми "Інформаційні системи та технології" в Харківському національному економічному університеті імені С. Кузнеця.

Запропонована освітня програма "Інформаційні системи та технології" є збалансованою, забезпечує набуття здобувачами вищої освіти всіх компетентностей і досягнення всіх програмних результатів навчання згідно стандарту вищої освіти зі спеціальності 126 - "Інформаційні системи та технології". Програма ретельно підготовлена та забезпечена методичними матеріалами для викладачів і навчальними ресурсами для здобувачів вищої освіти. Програми навчальних дисциплін, навчальні посібники, методичні вказівки до виконання лабораторних, курсових, дипломних робіт і проходження практики

доступні в репозитарії університету та бібліотеці. Особливо слід зазначити "Персональну навчальну систему ХНЕУ імені С. Кузнеця" - яка забезпечує дистанційну підтримку викладання навчальних дисциплін, а саме: містить інструктивні матеріали до лабораторних робіт; інформаційні ресурси для опанування нового матеріалу; завдання для самостійної роботи; дає змогу інтерактивного спілкування здобувачів вищої освіти; забезпечує проведення тестування навчальних досягнень, подання результатів навчальної праці та їх рецензування й оцінювання. Зміст і глибина подання навчального матеріалу задовольняє сучасним вимогам ІТ підприємств Харкова та України в галузі інформаційних систем та технологій.

Відзначаючи високий науково-методичний рівень і збалансованість освітньої програми "Інформаційні системи та технології" слід зазначити, що в програмі значну увагу приділено питанням удосконалення інформаційної системи на основі аналізу бізнес-процесів, які вона обслуговує. Цей напрям визначає фокус і особливості реалізації освітньої програми у Харківському національному економічному університеті імені С. Кузнеця, тож доцільним є внесення до програми додаткового результату навчання "РН12. Удосконалювати інформаційну систему на основі аналізу бізнес-процесів".

За результатами аналізу освітньої програми "Інформаційні системи та технології" та відповідного методичного й дидактичного забезпечення Харківського національного економічного університету імені С. Кузнеця систем можна зробити висновок, що зазначена програма є актуальною, відповідає стандарту спеціальності 126 - "Інформаційні системи та технології", задовольняє сучасним вимогам бізнесу до підготовки професіоналів другого (магістерського) рівня освіти та має бути рекомендованою для подальшої реалізації.

Генеральний директор
ТОВ «ГРІД ДІНАМІКС УКРАЇНА»   С. О. Тарадай

Освітня програма "Інформаційні системи та технології" підготовлена у відповідності до вимог стандарту спеціальності 126 "Інформаційні системи та технології" та практики ІТ бізнесу. Якість методичних і дидактичних матеріалів забезпечує високий рівень підготовки майбутніх професіоналів, що є традицією Харківського національного економічного університету імені С. Кузнеця. Про це свідчить досвід фахівців нашої компанії, що є випускниками кафедри інформаційних систем, які навчалися за іншими освітніми програмами та за освітньою програмою "Інформаційні системи та технології" другого (магістерського) рівня вищої освіти.

Висновок: освітня програма "Інформаційні системи та технології" другого (магістерського) рівня освіти Харківського національного економічного університету імені С. Кузнеця задовольняє стандарту спеціальності 126 - "Інформаційні системи та технології", забезпечує підготовку фахівців, які дуже потрібні на сучасному етапі розвитку ІТ галузі в Україні й має бути рекомендованою для подальшої реалізації.

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_____ Д.В. Вартанян .

М.П.

«____»_____2022р.