

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
NATIONAL UNIVERSITY  
"LVIV POLYTECHNIC"**

«I APPROVE»  
Rector  
of Lviv Polytechnic  
National University

\_\_\_\_\_ Prof. Yurii Bobalo  
25.10.2022

**EDUCATION – SCIENTIFIC PROGRAM**

**third (educational and scientific) level of higher education за спеціальністю 263**

**Civil security**

**fields of knowledge 26 Civil security**

**Qualification: Doctor of Philosophy in Civil Security**

Considered and approved  
at the meeting of the Academic  
Council University  
«25» \_\_\_10\_\_\_ 2022.  
protocol № \_\_\_\_\_

Lviv - 2022

**LETTER OF AGREEMENT**  
**educational and professional program**

Level of higher education	the third (educational and scientific)
BRANCH OF KNOWLEDGE	26 Civil security
SPECIALTY	263 Civil security
Qualification	Doctor of philosophy

**APPROVED**

Scientific and Methodological  
Commission of the specialty 263  
Civil security  
Minutes № \_\_\_\_\_  
from \_\_\_\_\_

Chairman of the SMC specialty  
\_\_\_\_\_ O. Nahursky  
Director of ISD Viacheslav Chornovil  
\_\_\_\_\_ O. Moroz

**AGREED**

Head of the educational and methodical  
department  
\_\_\_\_\_ V. Sviridov

Vice-rector for scientific work  
\_\_\_\_\_ Demydov I.

**RECOMMENDED**

Scientific and Methodological Council  
of the University  
Minutes № \_\_\_\_\_  
from \_\_\_\_\_

Chairman of the SRC specialty  
\_\_\_\_\_ A. Zahorodniy

Vice-rector for scientific and  
pedagogical work  
\_\_\_\_\_ O. Davydchak

## PREFACE

It was developed on the basis of the Standard of Higher Education of Ukraine for the third (educational and scientific) level of the field of knowledge 26 – Civil security specialty 263 Civil security - Order of the Ministry of Education and Science of Ukraine dated 12.24.2021 No. 1438, by a working group consisting of:

- |               |  |
|---------------|--|
| N. Stupnytska | – Ph.D., associate professor, associate professor of the Department of Civil Security, guarantor of the educational and professional program |
| B. Bolibrukh  | – Ph.D., prof., professor, professor of the Department of Civil Security   |
| O.Nahursky    | – Ph.D., professor, professor, head of the Department of Civil Security  |
| Y. Sheleh     | – Ph.D., Associate Professor, Associate Professor of the Department of Energy and Management Systems   |
| R. Yarema     | – - occupational safety engineer of the Ukrainian-English JV Lviv coffee factory "Halka"   |

Guarantor of OPP Ph.D., Associate Professor,  
Associate Professor of the CB Department

N. Stupnytska

The project of the educational and scientific program was discussed and approved at the meeting of the Academic Council of the Educational and Scientific Institute of Sustainable Development named after V. Chornovola Protocol No. 2 dated October 18, 2022.

Chairman of the Scientific  
Council of the ISD

\_\_\_\_\_ O. Moroz

Approved and brought into force  
By order of the Rector of Lviv Polytechnic National University  
№ \_\_\_\_\_  
\_\_\_\_\_

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**1. Doctor of Philosophy program profile  
fields of knowledge 26 "Civil security"  
in specialty 263 "Civil security"**

<b>1 – general information</b>	
<b>Full name of the higher education institution and structural unit</b>	Lviv Polytechnic National University, Department of Civil Security of the V. Chornovol Institute of Sustainable Development
<b>Level of higher education</b>	The third (educational and scientific) level
<b>Degree of higher education</b>	Doctor of philosophy
<b>Branch of knowledge</b>	26 Civil security
<b>Specialty</b>	263 Civil security
<b>The name of the educational and scientific program</b>	Civil security
<b>The Internet address of the placement of the educational and scientific program</b>	<a href="https://lpnu.ua/osvita/pro-osvitni-programy/tretii-riven-vyshchoi-osvity">https://lpnu.ua/osvita/pro-osvitni-programy/tretii-riven-vyshchoi-osvity</a>
<b>Restrictions on forms of education</b>	Full-time, part-time (distance)
<b>Educational qualification</b>	Doctor of Philosophy in Civil Security
<b>Qualification in diploma</b>	Degree of higher education - Doctor of Philosophy
<b>Description of the subject area</b>	<p><b>Object of study and/or activity:</b> processes study of phenomena and problems in the sphere of civil security.</p> <p><b>The purpose of training:</b> training of specialists who are capable produce new ideas, solve complex problems in the field of civil security, which involves deep reinterpretation of existing ones and creation of new integral ones knowledge and/or professional practice.</p> <p><b>Theoretical content of the subject area:</b> notions, concepts, theories of scientific knowledge and patterns of phenomena and processes related to the development of preventive measures, innovative solutions in the field of civil security.</p> <p><b>Methods, techniques and technologies:</b> methods of analysis, evaluation, modeling, forecasting, optimization of systems and processes, decision-making in the field of civil security, modern digital technologies.</p> <p><b>Tools and equipment:</b> information and analytical tools, devices and devices; digital technologies, information systems and software products</p>
<b>Academic rights of graduates</b>	A doctor of philosophy has the right to obtain a scientific degree of doctor of sciences and additional qualifications in the adult education system.
<b>The amount of credits under the European Credit Transfer System</b>	43

<b>required for obtaining the relevant degree of higher education</b>	
<b>Availability of accreditation</b>	-
<b>Cycle/level</b>	<b>FQ-EHEA - the third cycle, EQF- LLL - 8 level</b>
<b>Prerequisites</b>	Individuals who have obtained a master's degree can apply for the higher education degree of doctor of philosophy. For entrants who have obtained a master's degree in another specialty, an additional entrance test must be conducted, during which the entrant must demonstrate the competencies and learning outcomes defined by the standard of higher education for the master's degree in the specialty 263 Civil Security.
<b>Language(s) of instruction</b>	Ukrainian language
<b>Basic concepts and their definitions</b>	The educational and scientific program uses basic concepts and their definitions in accordance with the Law of Ukraine "On Higher Education" dated July 1, 2014 p. No. 1556-VII as amended, of the Law of Ukraine "On Education" dated September 5, 2017, p. No. 2145-VIII with amendments and additions, Procedure for the training of higher education applicants for the degree of Doctor of Philosophy and Doctor of Science in institutions of higher education (scientific institutions), approved by Resolution of the Cabinet of Ministers of 03.23.2016 No. 261 with amendments and additions, Procedure for awarding the degree of Doctor of philosophy and cancellation of the decision of the one-time specialized academic council of the institution of higher education, scientific institution on awarding the degree of doctor of philosophy, approved by the Resolution of the Cabinet of Ministers of Ukraine dated 12.01.2022. No. 44, Methodological recommendations for the development of standards of higher education, approved by the Order of the Ministry of Education and Science of Ukraine dated 01.06.2017 No. 600 with changes and additions", of the standard of higher education of the third (educational and scientific) level, the degree of Doctor of Philosophy, field of knowledge 26 Civil security, specialty 263 Civil security (approved by order of the Ministry of Education and Science of Ukraine dated 12.24.2021 No. 1438).
<b>2 – The purpose of the educational program</b>	
	Training of highly qualified scientists and teaching staff who possess competencies, universal human values and creative abilities capable of defining and solving complex tasks and problems of civil security, making appropriate analytical and management decisions in the field of civil security based on research and innovation activities, which involves a deep rethinking of the existing and the creation of new, integral knowledge that has scientific novelty, theoretical and practical value.
<b>3 - Characteristics of the educational program</b>	
<b>Orientation of the educational program</b>	The educational and scientific program is aimed at the creation of new technical means and management solutions in integrated systems of civil security, which are based on holistic knowledge and have

	scientific novelty, theoretical and practical value.
<b>The main focus of the educational program and specialization</b>	Acquiring the necessary scientific, research, innovative competencies, deepening the educational and scientific component of professional activity in the field of civil security.
<b>Features of the program</b>	The features of the program are the application of person-oriented training, which is aimed at researching the global aspects of the current state of civil security at the level of the region and the country as a whole, and mastering and using modern methods of monitoring and diagnosing the state of security systems of business entities in order to form models of their development with using modern information technology; The educational program involves a combination of theoretical knowledge and practical (including teaching) training.
<b>4 – Eligibility of graduates to employment and further education</b>	
<b>Suitability for employment</b>	Positions of scientific and scientific-pedagogical workers in scientific institutions and institutions of higher education, engineering, expert, analytical, etc. positions in research and other institutions and divisions, bodies of state power and local self-government
<b>Academic rights of graduates</b>	The doctor of philosophy has the opportunity to study under other scientific programs in the field of knowledge "Civil security" or related fields of knowledge; receive additional postgraduate education, receive research grants and scholarships.
<b>5 – Teaching and assessment</b>	
<b>Teaching and learning</b>	The form of full-time and part-time education. Problem-oriented learning with a predominance of independent work: lectures, practical classes, consultations with teachers, learning through practice, mandatory involvement in scientific work, preparation of a dissertation.
<b>Assessment</b>	Current control, written works with an oral component, oral exams, assessments based on the results of studying the disciplines of the educational component of the educational and scientific program. Implementation of an individual research project, registration of research results, writing a dissertation. Oral open defense of the dissertation in the board of experts.
<b>6 – Software competencies</b>	
<b>Integral competence</b>	The ability to produce new ideas, solve complex problems in the field of civil security, apply the methodology of scientific and pedagogical activity, as well as conduct own scientific research, the results of which have scientific novelty, theoretical and practical significance
<b>General competences (GK)</b>	<b>GK01.</b> Ability to search, process and analyze information from various sources. <b>GK 02.</b> Ability to work in an international context. <b>GK 03.</b> Ability to develop and manage projects. <b>GK 04.</b> The ability to solve complex problems of civil security based on a systematic scientific worldview and a general cultural outlook while respecting the principles of professional ethics and academic integrity.

<b>Special (professional, subject) competences</b>	<p><b>SK01.</b> The ability to perform original research, to achieve scientific results that create new knowledge in the field of civil security and related interdisciplinary areas.</p> <p><b>SK02.</b> The ability to apply modern methodologies, methods and tools of experimental, empirical and theoretical research in the field of civil security, modern digital technologies, databases and other electronic resources, specialized software in scientific and educational activities.</p> <p><b>SK03.</b> The ability to carry out scientific and pedagogical activities in higher education in the field of civil security.</p> <p><b>SK04.</b> The ability to identify, pose and solve research-related problems in the field of civil security, to evaluate and ensure the quality of performed research.</p>
<b>7 - Program learning outcomes</b>	
<b>Learning outcomes</b>	<p><b>LO01.</b> Have advanced conceptual and methodological knowledge in the field of civil security and at the border of the fields of knowledge, as well as research skills sufficient to conduct scientific and applied research at the level of the latest world achievements in the relevant field of civil security, obtain new knowledge and/or implement innovations.</p> <p><b>LO02.</b> Freely present and discuss with specialists and non-specialists the results of research, scientific and applied problems of civil security in national and foreign languages, publish the results of research in scientific publications</p> <p><b>LO03.</b> Formulate and test ideas, hypotheses, strategies, solutions, use appropriate evidence to substantiate conclusions, in particular, the results of experimental, empirical and theoretical research in the field of civil security, computer modeling, available data.</p> <p><b>LO04.</b> Apply modern tools and technologies of search, processing and critical analysis, in particular, statistical methods of data analysis of large volume and/or complex structure, specialized databases and information systems.</p> <p><b>LO05.</b> Plan and carry out experimental and/or theoretical research on civil security and related interdisciplinary areas using modern tools and observing the norms of professional and academic ethics, critically analyze the results of own research and the results of other researchers in the context of modern knowledge about the problem under study</p> <p><b>LO06.</b> To carry out pedagogical activities in the field of civil security, using its scientific, educational, methodological and normative support, to apply effective teaching methods</p> <p><b>LO07.</b> Identify scientific and practical problems in the field of civil security, deeply understand the methodology of scientific research, apply them in own research and in teaching practice</p> <p><b>LO08.</b> Apply modern digital technologies, methods of modeling, forecasting, optimization and decision-making in professional activities in the field of civil security.</p> <p><b>LO09.</b> Develop, improve and research conceptual and computer models of processes and systems, effectively use them to obtain new knowledge and/or create innovative products in the field of civil security and related interdisciplinary areas.</p>
<b>8. Resource support for program implementation</b>	

<b>Basic characteristics of human resources</b>	100% of the teaching staff involved in teaching professionally oriented disciplines have scientific degrees in their specialty or in related specialties, are recognized professionals with experience in research, management or innovative work in their specialty
<b>The main characteristics of material and technical support</b>	Full provision of educational facilities, provision of computer workplaces and applied computer programs. Equipment of the testing laboratory of the occupational health and safety department and the Center for collective use of scientific equipment "Laboratory of promising technologies for the creation and physicochemical analysis of new substances and functional materials" NU "Lviv Polytechnic"
<b>Main characteristics of informational and methodological support</b>	The use of the virtual learning environment of the National University "Lviv Polytechnic" and author's developments of scientific and pedagogical workers.
<b>9. Academic mobility</b>	
<b>National credit mobility</b>	On the basis of bilateral agreements between Lviv Polytechnic National University and universities of Ukraine.
<b>International credit mobility</b>	Based on bilateral agreements between Lviv Polytechnic National University and higher educational institutions of foreign partner countries.
<b>Education of foreign students of higher education</b>	It is possible after studying the Ukrainian language course.



## 2. Distribution of content educational and professional program by component groups and preparation cycles

№ п/п	Training cycle	The volume of the educational load of the student of higher education (credits / %)		
		Mandatory components of the educational component	Elective components of the educational component	In total for the entire term teaching
1	2	3	4	5
1.	Cycle of disciplines that form general scientific competences and universal skills of the researcher	21/49	3/7	24/56
2.	Cycle of disciplines forming professional competences	10/23	6/14	16/37
3.	The cycle of free choice of a graduate student	-	3/7	3/7
Total for the entire period of study		31/72	12/28	43/100

## 3. List of components of the educational and professional program

Code	Components of the educational component	Number of credits	Form of control
1	2	3	4
<b>Mandatory components of the educational component</b>			
<i>1.1. Cycle of disciplines that form general scientific competences and universal skills of the researcher</i>			
EK 1.1	Philosophy and methodology of science	3	exam
EK1.2	Foreign language for academic purposes, part 1	4	test
EK1.3	Foreign language for academic purposes, part 2	4	exam
EK1.4	Professional pedagogy	3	test
EK1.5	Academic entrepreneurship	4	test
EK1.6	Pedagogical practice	3	test
<b>Total per cycle:</b>		<b>21</b>	
<i>Cycle of disciplines forming professional competences</i>			
EK 2.1	Methodology of scientific research	4,0	exam
EK 2.2	Monitoring and diagnosis of the state of security systems	3,0	exam
K 2.3	Scientific and innovative tasks and problems of civil security	3,0	test
<b>Total per cycle:</b>		<b>10</b>	

Elective components of the educational component			
<i>2.1. Cycle of disciplines that form general scientific competences and universal skills of the researcher*</i>			
SB1.1	Business Foreign Language	3	test
SB 1.2	Psychology of creativity and invention	3	test
SB 1.3	Management of scientific projects	3	test
SB 1.4	Technology of registration of grant applications and patent rights	3	test
SB 1.5	Rhetoric	3	test
SB 1.6	Modern inventions in research activities	3	test
SB 1.7	Open scientific practices	3	test
SB 1.8	Academic integrity and quality of education	3	test
SB 1.9	Methodology of preparation of scientific publications	3	test
SB 1.10	Quality of higher education (formation of internal quality assurance systems)	3	test
<b>Total per cycle:</b>		<b>3</b>	
<i>2.2. Cycle of disciplines forming professional competences **</i>			
SB 2.1	Labor protection during high-risk work	3	exam
SB 2.2	Psychological aspects of occupational safety	3	exam
SB 2.3	Environmental safety of production	3	exam
SB 2.4	Radiation safety and the basics of radiation protection	3	exam
SB 2.5	Conducting engineering and technical examinations	3	exam
SB 2.6	Fire and explosion safety of production and explosion protection	3	exam
SB 2.7	Methodology of forming grant applications	3	exam
SB 2.8	The procedure for preparing articles, reports and presentations	3	exam
SB 2.9	Technology transfer	3	exam
SB 2.10	Protection of intellectual property objects	3	exam
<b>Total per cycle:</b>		<b>6(3+3)</b>	
<i>3. The cycle of free choice of a graduate student ***</i>			
SB 3.1	Discipline of the graduate student's free choice	3	test
<b>Total per cycle:</b>		<b>3</b>	
<b>In general</b>		<b>43</b>	

Note:

\* - a list of disciplines that form professional competences, offered jointly for the ONPs of related fields and specialties;

\*\* - the list of optional disciplines forming professional competences must contain ten disciplines, from which the graduate student chooses two;

\*\*\* - a graduate student can choose disciplines taught at Lviv Polytechnic National University or other domestic (foreign) higher education institutions (scientific institutions) at all levels.

#### **4. The scientific component of the educational and scientific program**

The scientific component of the educational-scientific program involves the postgraduate student conducting his own scientific research under the guidance of one or two academic supervisors and the preparation of his results in the form of a dissertation.

The dissertation for obtaining the degree of Doctor of Philosophy is an independent comprehensive study that offers a solution to an actual scientific and applied task in the specialty 263 Civil Security, the results of which are characterized by scientific novelty and practical value and are published in relevant publications.

The scientific component of the educational-scientific program is drawn up in the form of an individual plan of scientific work of a postgraduate student and is an integral part of the postgraduate study plan.

An integral part of the scientific component of the postgraduate educational and scientific program is the preparation and publication of scientific articles, speeches at scientific conferences, scientific professional seminars, round tables, and symposia.

#### **Topics of scientific research by specialty 263 Civil security:**

1. Energy sector of Ukraine: trends, problems, prospects
2. Energy independence, reliability and stability of PEC
3. Modern management system in the energy sector
4. Reforming the energy sector
5. Ensuring the sustainable development of energy sector security systems
6. Technical creativity in solving energy sector problems
7. Study of the protective properties of personal protective equipment.
8. Study of parameters of work performance regulations under different climatic conditions.
9. Research and justification of classes of working conditions.
10. Development and substantiation of regulations for the performance of high-risk works.
11. Study of the influence of dangerous and harmful production factors on the state of health of workers. Development of measures to minimize the impact of NSF on employees.
12. Introduction of innovative technologies for the prevention of occupational diseases and industrial injuries.
13. Waste processing and utilization, resource and energy saving, control and protection of the human environment from pollution.

14. Improvement of organizational, technical and sanitary-hygienic measures to reduce industrial injuries at enterprises.
15. Nanotechnology in flame extinguishing processes.

## 5. Form of attestation of applicants of higher education

<b>Forms of attestation of applicants of higher education</b>	Attestation is carried out in the form of public protection theses
<b>Requirements for qualifying work</b>	<p>The thesis for the degree of Doctor of Philosophy is an independent comprehensive study that proposes a solution to a complex problem in the field of civil security or at the border of several specialties, which involves a deep rethinking of existing and the creation of new holistic knowledge and/or professional practice.</p> <p>The dissertation should not contain academic plagiarism, falsification, fabrication.</p> <p>The dissertation must be published on the official website of the higher education institution.</p>

Attestation of higher education holders of the degree of Doctor of Philosophy in the specialty 263 Civil security is carried out by a specialized academic council, permanent or formed for a one-time defense, on the basis of a public defense of scientific achievements in the form of a dissertation. The volume of the main text of the dissertation can be 4.5 - 5.0 pages.

A mandatory condition for admission to the defense is the successful completion of the graduate student's individual study plan. The work of graduate students is based on the principles of academic integrity: observance of the culture of scientific integrity in all types of scientific activity and compliance with ethical norms; awareness of responsibility for the occurrence of danger for individuals or society in general in connection with the application of untested new scientific knowledge; impeccable honesty and transparency at all stages of scientific research (with compliance with copyright, national interests of Ukraine, state secrets), inadmissibility of plagiarism, self-plagiarism, falsification and fabrication of data.

Graduates of higher education with the degree of Doctor of Philosophy in the specialty 263 Civil security defend their dissertations in the specialized academic council in the specialty 263 Civil security, formed for a one-time defense, at the institution of higher education where the graduate student was trained. The academic council of a higher education institution has the right to submit documents to the National Agency for Quality Assurance of Higher Education for the accreditation of a specialized academic council formed to conduct a one-time defense, or to apply to another institution of higher education where a permanent specialized academic council operates in the specialty 263 Civil security.

## 6. Matrix of correspondence of program competences educational components

	OK1.1.	OK1.2.	OK1.3.	OK1.4.	OK1.5.	OK1.6.	OK2.1.	OK2.2.	OK2.3.	BB1.1.- BB1.10	BB2.1.	BB2.2.	BB2.3.	BB2.4.	BB2.5.	BB2.6.	BB2.7.	BB2.8.	BB2.9.	BB2.10.	BB3.1.	
IHT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3K01	•	•	•	•						•	•	•	•	•	•	•	•	•	•	•	•	•
3K02					•	•				•	•	•	•	•	•	•	•	•	•	•	•	•
3K03		•		•						•	•	•	•	•	•	•	•	•	•	•	•	•
3K04	•				•					•	•	•	•	•	•	•	•	•	•	•	•	•
CK03							•															•
CK04								•														
CK05									•		•											
CK06							•	•				•	•	•	•	•	•	•	•	•	•	•

**Conventional designations:**

**OKi** – mandatory discipline, **BBi** – selective discipline, **i** – discipline number in the list of components of the educational component, **INT** – integral competence, **ZKj** – general competence, **SKj** – professional competence of the specialty, **j** – competence number in the list of competencies of the educational component .

## 7. Matrix of provision of program learning outcomes relevant components of the educational component

	OK1.1.	OK1.2.	OK1.3.	OK1.4.	OK1.5.	OK1.6.	OK2.1.	OK2.2.	OK2.3.	BB1.1.- BB1.10.	BB2.1.	BB2.2.	BB2.3.	BB2.4.	BB2.5.	BB2.6.	BB2.7.	BB2.8.	BB2.9.	BB2.10.	BB3.1	
PH01	•						•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
PH02		•	•							•												
PH03				•		•																
PH04					•																	
PH05				•		•																
PH06							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PH07	•	•	•					•				•	•	•	•							
PH08		•							•													
PH09	•									•												

**Notations:** **OKi** – mandatory discipline, **BBi** – optional discipline, **i** – number of the discipline in the list of components of the educational component, **PHm** – program results (knowledge and skills), **m** – number of the program result in the list of program results of the educational component.

**Comparative table of OP regarding similar educational programs**

Comparison parameters	ESP, which is compared	Educational programs (Ukrainian and foreign) with which a comparison is made	
		EP1	EP2
	Lviv Polytechnic National University ESP "Civil Security"	National Technical University "Dnipro Polytechnic", ESP "Civil Security"	<u>Uniwersytet Pedagogiczny im. Komisji Edukacji Narodowej w Krakowie</u> Науки про безпеку
Link to the ZVO website and the page where the description of the similar OP is posted	<a href="https://lpnu.ua/osvita/po-osvitni-programy/tretii-riven-vyshchoi-osvity">https://lpnu.ua/osvita/po-osvitni-programy/tretii-riven-vyshchoi-osvity</a>	<a href="https://www.nmu.org.ua/ua/content/infrastructure/structural_divisions/science_met_dep/ONP%20aspirant/263%20%D0%B0%D1%81%D0%BF%D1%96%D1%80%D0%B0%D0%BD%D1%82%20%D0%9E%D0%9D%D0%9F-2021.pdf">https://www.nmu.org.ua/ua/content/infrastructure/structural_divisions/science_met_dep/ONP%20aspirant/263%20%D0%B0%D1%81%D0%BF%D1%96%D1%80%D0%B0%D0%BD%D1%82%20%D0%9E%D0%9D%D0%9F-2021.pdf</a>	<a href="https://szkola-doktorska.up.krakow.pl/dokument/program-kształcenia-w-szkole-doktorskiej-rok-akademicki-2022-2023/">https://szkola-doktorska.up.krakow.pl/dokument/program-kształcenia-w-szkole-doktorskiej-rok-akademicki-2022-2023/</a>
Comparison of EP focus with similar EP	Acquiring the necessary scientific, research, innovative competencies, deepening the educational and scientific component of professional activity in the field of civil security. Key words: emergencies, accidents, risk, industrial safety, labor protection, civil protection, harmful production factors, dangerous production factors.	Specialized education in the field 26 "Civil security", specialty 263 "Civil security". Systematic scientific outlook and general cultural outlook perspective, compliance with professional ethics. Integrated safety management systems are built on based on Deming's principle, which require a deep change understanding existing and creating new integral knowledge. Conceptual strategy for the development of management systems labor protection at enterprises (Strategy Safety 4.0), which defines the modern	The curriculum at the Doctoral School is interdisciplinary. She implemented through a diverse offer of subjects, seminars and other forms of education, available to all elementary school students, as well as the possibility of obtaining interdisciplinary qualification through participation in activities offered through other doctoral programs, research and cultural institutions and institutions in the country and abroad.

		<p>capabilities of digital technologies that are integrated into business processes to expand capabilities capabilities to create, maintain and continuously improve safe working conditions.</p> <p>Key words: emergency situations, accidents, risk, industry the words safety, labor protection, civil defense are harmful production factors, dangerous production factors.</p>	
<p>Features of EP compared to similar (related) EP</p>	<p>The features of the program are the application of personal-oriented training, which is aimed at researching global aspects of the current state of civil security at the level of the region and the country as a whole, and mastering and using modern methods of monitoring and diagnosing the state of security systems of business entities in order to form models of their development with using modern information technology;</p> <p>The educational program involves a combination of theoretical knowledge and practical (including teaching) training.</p>	<p>The features of the program are the application of personal self-oriented training, which is aimed at:</p> <ol style="list-style-type: none"> <li>1) the study of global aspects of the modern state of civil security at the level of the region and the country as a whole;</li> <li>2) mastering and using modern methods of monitoring ring and diagnosis of the state of security systems of state entities</li> </ol> <p>donation for the purpose of forming models of their development with using modern information technology;</p> <p>The educational program involves a combination of theoretical knowledge and practical (including teaching)</p>	<p>The school supports:</p> <ol style="list-style-type: none"> <li>1) interdisciplinary activities and projects;</li> <li>2) mobility of doctoral students and establishment of contacts in the country and abroad through providing opportunities for doctoral students to participate in inter-university exchange programs, etc international and national conferences;</li> <li>3) carrying out scientific research and artistic activities, including outside the boundaries of the unit the organizational structure of the university or scientific unit;</li> <li>4) scientific or artistic cooperation within ensembles, including international ones;</li> <li>5) participation in summer schools and other programs and</li> </ol>



		<p>training.  Training is conducted in an active research scientific environment that involves the use of interactive of lectures, seminars and round tables with an invitation to houses of civil security specialists and practitioners, participation in trainings, international scientific and practical conferences as well as the use of modern educational information communication technologies.</p>	<p>courses (also available online)  improvement of scientific, artistic, didactic and social qualifications.</p>
<p>Peculiarities of training according to programs in terms of credits and duration</p>	<p>43 credits</p>	<p>60 credits</p>	<p>66 credits</p>
<p>Description of differences and features in sets of competencies and program learning outcomes</p>	<p>The list of competencies and program results corresponds to the Standard of Higher Education of Ukraine</p>	<p>The wording of competencies and program results has been expanded and 1 point added in comparison with the Standard of Higher Education of Ukraine</p>	<p>Specialized competences are developed mainly through subjects designed for these disciplines (in particular: Methodology of the discipline, Special workshops, Guest lectures).  Social competences are developed not only through the content of the chosen subjects, but also through the seminar formula of classes, group and public projects, reporting sessions, summer schools, internships, participation in</p>

			conferences and team grants, domestic and foreign internships.
Description of differences and features in sets and mandatory EKs	Mandatory credits are combined into 2 cycles - general scientific (21 credits) and professional (10 credits)	The compulsory part contains 3 cycles – general training (10 credits), special training (27 credits) and practical training (3 credits)	Mandatory ECTS are taught over 4 years (8 semesters)
Description of differences and features of sets of selective EK	Elective ECs are combined into 3 cycles – general scientific (3 credits), specialist (6 credits) and free choice (3 credits)	The elective part contains disciplines aimed at the development of soft skills (4 credits) and professional (16 credits)	Selective ECs, which form professional training, are combined into an individual curriculum