The Ministry of Education and Science of Ukraine State Higher Educational Institution "Ukrainian State Chemical Technology University"

		OA. Pivovarov 2017
Educational and professional professional Ecology and Environme (Name of the educational program)	nt	
The second (Master's) (Name of higher educat		_
Master (Name of the degree that is a	assigned)	
BRANCH OF KNOWLEDGE Code name and area of expert	ise)	_
SPECIALTY Environment 101(Code and specialty)		
A	SHE	e Scientific Council E UDHTU _" 2017. col №

Dnipro 2017

Letter of approval Educational and vocational programs The level of higher education The second (Master's) level Branch of knowledge 10 Science Specialty 101 Ecology Educational and professional programs **Ecology and Environment** "APPROVED" "DEVELOPERS" First Vice-Rector, head of the scientific and methodical council SHEE UDHTU The head of the project group Nabyvach VM (Signature) (surname and initials) Holeus VI (Signature) (surname and initials) «____» _____2017 «____» _____ 2017 NSC chief Members of the project team Smotrayev RV (Signature) (surname and initials) Hevod VS (Signature) (surname and initials) «____» _____2017 « » 2017 Methodical Department Makarchenko NP (Signature) (surname and initials) Fomenko GV «____» _____2017 (Signature) (surname and initials) Dean THP DA Suhomlin (Signature) (surname and initials) «____» _____2017 Acting Head of Department THP and E Educational and professional programs rendered valid Rector's order __ Vereshchak VG № ___ of "___" ____ 2017. (Signature) (surname and initials) «____» _____2017

I. PROFILE educational and vocational programs TRAINING MASTER 101 specialty Ecology

	Profile program (general information)				
Full title in the	The degree of higher education - Master Specialty - Environmental				
original					
language skills					
The official	Educational and vocational training program "Ecology and				
name of the	Environment " training master's degree in 101 Ecology				
educational	Environment daming masters adopted in 101 Ecotogy				
program					
Type diploma	Master's degree in ecology, single (double, shared with the relevant				
and scope of the	agreements, training programs); 90 ECTS credits				
educational	agreements, training programs), 7 o 2012 eredits				
program					
Full name of the					
institution of					
higher education	State Higher Educational Institution "Ukrainian State Chemical				
that award	Technology University"				
qualifications					
The sending	Accreditation Commission of Ukraine (POC "Training Center for				
organization	Quality Education"). NAZYAVO.				
The period of	The certificate on initial accreditation - 5 years after re - 10 years.				
accreditation					
Cycle / level	Ukraine NLC - 7 level, FQ-EHEA - second cycle, EQF-LLL - level 7				
Background	The first (bachelor) level				
Language (s)	Ukrainian language				
teaching					
8					
AND	The purpose of the educational program				
The purpose of	Provide education in science with broad access to employment, prepare				
the educational	students who have fundamental and professionally oriented knowledge				
program	and skills in the field of ecology and environmental protection, to enable				
	them to carry out original research or to work independently in the				
	workplace.				
В	Characteristics of the educational program				
Subject area	Industry knowledge 10 - Natural sciences:				
(discipline, special					
	educational and professional program - Ecology and Environment.				
The main focus of	the Total higher education in science.				
program and					
specialization					
Orientation progr	am The program focuses on modern science complex scientific results				
	related to ecology and environmental protection within which				
	possible future professional and academic career specialist in				
	ecology.				

Features and	Regular updating that takes into account trends				
Differences	the progressive development of environmental technologies.				
WITH	Ability to employment and further education				
Ability to	Jobs environmentalist, teacher of higher education institution,				
employment	Research assistant, researcher, researcher, consultant, engineer,				
	researcher, laboratory engineer, Engineer restoration of natural				
	ecosystems on environmental engineer, a specialist in				
	environmental education assistant, ppetsialistom public service,				
	fahivtsem management projects and programs in material				
	(immaterial) production.				
	(Inimaterial) production.				
Further training	Education at the third level education for doctoral programs in the				
Further training	natural sciences.				
	natural sciences.				
D	The style of teaching and learning methods				
Approaches to	A combination of lectures, practical seminars, experimental studies				
teaching and learning	in laboratories, projects or writing term papers, learning, training				
	qualifying work.				
evaluation methods	Written and oral exams, tests, presentations, defense of master's				
	qualification work.				
IS	Software competence				
IS Integral competence	Software competence Master (Level 7): Ability to solve complex problems and issues in a				
Integral competence	Master (Level 7): Ability to solve complex problems and issues in a				
	Master (Level 7): Ability to solve complex problems and issues in a particular industry or professional activities in the learning				
Integral competence	Master (Level 7): Ability to solve complex problems and issues in a particular industry or professional activities in the learning process, involving research and / or implementation of innovation				
Integral competence (INT)	Master (Level 7): Ability to solve complex problems and issues in a particular industry or professional activities in the learning process, involving research and / or implementation of innovation and characterized by uncertainty conditions and requirements				
Integral competence (INT) General competence	Master (Level 7): Ability to solve complex problems and issues in a particular industry or professional activities in the learning process, involving research and / or implementation of innovation and characterized by uncertainty conditions and requirements ZK-1 The capacity for abstract thinking, analysis and synthesis.				
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ZK -15. The ability to use basic knowledge from basic science to the extent necessary for the theoretical development of professionally-oriented disciplines and solve practical problems of chemical technology and engineering.

Special (professional) competence (SC)

- *SC-1*. The ability to have the knowledge and skills of application of environmental protection to minimize the negative impact of anthropogenic activities.
- *SC-2*. The ability to use knowledge, skills and abilities in the disciplines of general training cycle for the theoretical development of disciplines and professional direction solving practical problems of environmental technologies.
- *SC-3*. The ability to use the knowledge and practical skills to protect air quality.
- *SC-4*. The ability to use knowledge and practical skills to ensure the quality of natural water (water reservoirs).
- *SC-5*. The ability to use the knowledge and practical skills to protect soil (land resources) and the geological environment (subsoil).
- *SK-6*. The ability to use the knowledge and practical skills in the management and treatment of waste production and consumption to limit the negative man-made effects on the environment;
- *SC*-7. The ability to use knowledge for the conservation of biological and landscape diversity, rational use of natural resources and environment to preserve the stability of natural ecosystems.
- *SK-8*. The ability to use knowledge to reduce the negative impact of technologically-altered landscapes.
- *IC-9*. The ability to use calculation methods for environmental risk assessment of anthropogenic impact on the environment.
- *SC-10*. The ability to use basic tenets of sustainable (balanced) development and education for sustainable development for the practical realization in some regions of Ukraine.
- *SC-11*. The ability to use the principles of sustainable environmental management to ensure the implementation of preventive measures to protect the environment and conserve natural resources.
- *SC-12*. The ability to use modern technology in the field of environmental education and the principles of the Bologna process in Ukraine.
- *SC-13*. The ability to use modern methods of experimental work on technological objects in industrial and laboratory conditions, skills with modern instrumentation.
- *IC-14*. The ability to provide the necessary level of safety in solving professional problems.
 - SC-15. The ability to introduce modern educational

technologies in the field of environmental education and education for sustainable development.

SC-16. The ability to use knowledge of the principles of formation of environmental management systems and procedures for management of companies that make environmental management functions, tasks of environmental management.

SC-17. The ability to use knowledge of the principles and methodological approaches to environmental control and audit.

*SC-18. WITH*usefulness make effective decisions in civil protection allowing for the professional activities and in case of emergency (accidents).

SC-19. The ability to use knowledge of technology, economic and regulatory instruments of protection and restoration of the environment and natural resources.

SC-20. Skills for working with the most common software packages and use them to solve practical problems in the field of environmental protection.

SC-21. Competence in planning, design and execution of research projects, from the stage of problem identification to assessment results and drawing conclusions.

SC-22. Information retrieval skills in primary and secondary information sources, including information retrieval system using online search.

SC-23. Ability to use automated control system of environmental processes.

SC-24. Skills presentation of scientific material and arguments in writing and orally.

Program Learning Outcomes Results of studies in SW-1. AProvodyty analysis, synthesis, creative thinking, evaluation and systematization of various Information sources for cognitive (cognitive) sphere comprehensive environmental studies. SW-2. APredstavlyaty results comprehensive environmental studies as scientific reports and presentations, using modern mapping and graphical methods. SW-3. Cooking results integrated environmental Research to be published. SW-4. To conduct research and development for research results and forming the basis for the conclusions recommendations for storage, protection and restoration of natural ecosystems. SW-5. INmyths vote count criteria and integrated indexes and based on them to justify and assess the level of pollution. SW-6. Evaluate human impact on objects protected areas, providing recommendations for their protection organization based

on their environmentally-oriented forms of recreation and rehabilitation.

- *SW-7*. Assess the condition and the water quality of water bodies and analyze the dynamics of change depending on the conditions of water use and wastewater purification efficiency return water to provide recommendations to improve the ecological status of water bodies.
- *RCS-8*. ATtsinyuvaty level of anthropogenic load on the air and analyze the dynamics of air quality depending on the level of technical equipment pylohazoochysnyh facilities and equipment, weather-meteorological factors make recommendations for improvement.
- *SW-9*. Evaluate the impact of waste production and consumption to environmental quality, efficiency of their treatment and provide recommendations for improving environmental safety.
- *SW-10*. Evaluate dangerous geological processes (events) to determine the ecological and geological condition of territories and living conditions of the population, provide recommendations for improvement.
- *SW-11*. Evaluate the status and quality of soil, depending on the technologies of land use, climatic and landscape conditions provide suggestions for improving agroecological zoning and state
- SW-12. Assess the situation that may arise as a result of natural and man-made and provide recommendations for its stabilization.
- *SW-13*. Evaluate the environmental and economic efficiency of design solutions from the standpoint of sustainable development, develop recommendations for optimal environmental management.
- *SW-14*. Develop programs to ensure environmental safety, staff training methods of storing energy and natural raw materials, safe working methods.
- *SW-15*. Develop comprehensive measures of environmental protection from excessive anthropogenic pressures.
- *SW-16*. To be able to assess the need for a comprehensive approach to improve environmental safety, Environment and natural resources.
- *SW-17*. You can search the latest technical and technological and organizational solutions to implementation in production of promising environmental, resource and energy-saving developments and modern equipment.
- SW-18. Distribute responsibilities in the field of environmental activities between structural divisions of the company.
- *SW-19*. To draft orders, regulations on environmental protection and natural resources.

SW-20. Make a plan of subdivision and current environmental reports to address environmental issues.

SW-21. Draw up terms of reference for the development of scientific and technical products and execute according to regulatory requirements.

SW-22. Carry out an environmental audit operation manmade object (enterprise) and territory.

SW-23. Develop an environmental management system framework, taking into account industry specifics and scale of enterprises, organizations and territories.

SW-24. Following the technical, regulatory, legal and organizational bases of management of environmental safety design measures to minimize the negative effects of emergencies.

SW-25. Execute applications on regional, national and international grants and tender documents for professional research projects, provide them with support and passage;

SW-26. Organize interaction with state agencies of environmental control, public and other stakeholders in the environmental activities of enterprises, organizations and enterprises to ensure the timely exchange of information and improve the planning system.

SW-27. Organize training sessions and checks the results of student learning.

SW-28. Develop basic circuits control and automatic control of major environmental technologies.

Learning outcomes of value-motivational sphere

RTSMS-1. Meet the requirements of professional ethics in the workplace.

RTSMS-2. Identify desire to work independently.

RTSMS-3. Asking questions in discussions with colleagues and teachers.

RTSMS-4. Organize research at an appropriate level.

RTSMS-5. Use knowledge of basic science disciplines to develop professional direction.

RTSMS-6. Participate in the discussion of the results of different types of work (research, search, design, etc.).

RTSMS-7. Obtained demonstrate professional skills in the creation of scientific and project documentation.

RTSMS-8. Organize measures to preserve the environment.

RTSMS-9. Collaborate with colleagues in related fields to achieve the objectives of research or project.

RTSMS-10. Results represent different types of work (research, search, design, etc.) native and one of the major European languages.

RTSMS-11. Understand the scientific and technical texts in native and one of the major European languages.

Results of studies in

RPS-1. Experimental off

the	field	of	<i>RPS-2</i> . Repeatedly to reproduce the results of experiments to		
psycho	motor		obtain reliable values and calculation error experiment.		
	RPS-3. Combine different research methods to define th				
			parameters studied.		
			<i>MRF-4</i> . Observe safety in the workplace.		

II. DEFINITIONS academic disciplines / modules

that will ensure achievement of planned learning outcomes and forms of certification candidates for higher education educational program according to the standard of higher education

Table 1. Distribution content of educational and professional training program cycles and the shape of the final control

Table	2 1. Distribution content of educational and profess	sional transmig	program	cycles and t	ne snape (n the imai	Control
<u>№p</u> /	Subjects	Credits mandatory	Credits more	Hours	Semester	Tetramestr	Final control
	1. MAND	ATORY T	RAININ	G COUR	SE		
	1.1 The cycle of general training	(forming go	eneral co	ompetence	<u>e)</u>		
1.1.1	Occupational Health in	2.0		60	1	2	copies.
1.1.2	Intellectual Property	2.0		60	2	4	credit
1.1.3	Civil Protection	1.5		45	1	1	credit
1.1.4	Methodology and Research Organization	8.0		240	2	3, 4	copies.
1.1.5	Psychology and methods of teaching specialized subjects in high school	2.0		60	2	3	credit
1.1.6	Foreign Language (for professional purposes)	4.0		120	2	3.4	d.zalik
1.1.7	Physical education (out loans)						
	Total for Cycle 1.1	19.5		585.0			
	1.2 Cycle training (forming speci	ial (professi	onal) co	mpetence)		
1.2.1	Sustainable Development Strategy	3.0		90	1	1	credit
1.2.2	A systematic analysis of environmental quality	6.0	2.5	255	1	1, 2	d.zalik, CA
1.2.3	Environmental Management and Audit	3.0		90	1	2	copies.
1.2.4	Geo Technologies in Environment	3.0	1.0	120	1	1	credit

1.2.5	Preparation qualification master's work and state certification	12.0	13.5	765			DA
	Total for Cycle 1.2	27.0	17.0	1320.0			
	MANDATORY pieces together	46.5	17.0	1905.0			
		elective C	ourses	l .	ı	I	-
	2.1. The cycle of general training (forming general competence)						
	2.2. Cycle training (form	ing specia	l (profes	sional) co	mpetenc	e)	
2.2.1	Environmental technology		5.0	150.0	1	2	ind., CA
2.2.2	Fundamentals of environmental technologies		3.0	90.0	1	1	d.zalik
2.2.3	Basis of distribution of harmful substances in the biosphere		2.0	60.0	2	3	credit
2.2.4	Conduct of the water resources		6.0	180.0	2	3.4	ind., CD
2.2.5	One of the modules		10.5	315			
	module 1						
	assistant practice		4.5	135			d.zalik
	Research practice		6	180			d.zalik
	module 2						
	assistant practice		4.5	135			d.zalik
	Research and production practice		6	180			d.zalik
	Total for Cycle 2.2		26.5	795.0			
	MANDATORY TOTAL LOANS	46.	5	1395			
	LOANS TOTAL SAMPLE	43.	5	1305			
	TOTAL VOLUME	90.	0	2700			

Table 2. Generalized distribution of educational content professional groups prohramyza components (subjects) and cycle training

No		Workload applicant Higher Education (loans /%)			
p /	Cycle training	Required components	Selected components	Total for the entire	
1 -	Cycle training	of educational and	of educational and	period of study	
p		professional program	professional program		
1.	The cycle of general training	19.5 / 21.7	-	19.5 / 21.7	
	(forming general competence)				
2.	Cycle training (forming special	27 / 30.0	43.5 / 48.3	70.5 / 78.3	
	(professional) competence)	27 / 30.0	43.3 / 46.3	10.3 / 18.3	
To	otal for the entire period of study	46.5 / 51.7	43.5 / 48.3	90/100	

Table 3. List of subjects educational and professional training programs competitors education second (master's) level, learning time ECTS credits for cycle training and a list of existing competencies and learning outcomes

Training cycles	Ciphers competencies	Ciphers learning outcomes	The list of disciplines	ECTS credits
1	2	3	4	5
1.1. The cycle of	TSP-1, TSP-3, TSP-4	SW-1, SW-2,		
general training	LC-5, LC-8, ZK-9,	SW 4, SW-5,		
(forming general	LC-10, LC-11, LC-	SW-6, SW-12		
competence)	13, LC-14, LC-15,	RKS-14, RKS-24	1.1.1 Safety in	2.0
	SC-1, SC-2, IC-3, IC	RTSMS-4 RTSMS-5 RTSMS-6	industry	2.0
	4, SC-5 SC-6 SC-7	RTSMS-7 RTSMS-9 RTSMS		
	SC-8, SC 9, SC-14	10, RTSMS-11		
		RPS-4		
	LC-1, LC-2 LC-3	SW-1, SW-2,		
	ZK-4, ZK-5, LC-6	SW 3, SW-4,		
	ZK-7, HCC-8, ZK-9,	SW 5, SW-25		
	LC-10, LC-13,	CSW-26		
	LC-14, LC-15,	RTSMS-1 RTSMS-2 RTSMS-3	1.1.2. Intellectual	2.0
	SC-1, SC-2, IC-3, IC	RTSMS-4 RTSMS-5 RTSMS-6	Property	2.0
	4, SC-5 SC-6 SC-12,	RTSMS-7 RTSMS-9		
	SC-13,	RTSMS 10, 11 RTSMS		
	SC-20, SC-21,			
	SC-22, SC-24			
	LC-3 LC-5, LC-6	SW 5, SW-6		
	ZK-7, HCC-8, ZK-9,	RKS-12, RKS-15		
	LC-10, LC-11, LC-	CSW-24	1 1 2 Civil Duotostica	1.5
	12, LC-13, HCC-14	RTSMS-2 RTSMS-8	1.1.3. Civil Protection	1.5
	SC-1, SC-6 SC-8	RTSMS 10, 11 RTSMS		
	SC 9, SC-18, SC-20			

	**	TOTAL 1.1	19.5
		discipline)	
		education (pozakredytna	
		1.1.7. Physical	
	, , , , , , , , , , , , , , , , , , , ,		
	SW-1 SW-2 SW 4 SW 5		
	KISMS II	professional purposes	
	*	\mathcal{C}	4.0
		_	4.0
, , , , , , , , , , , , , , , , , , ,	, ·	1.1.6 Familian	
	DVG 17 DVG 26		
	RTSMS-7, 9 RTSMS-		
· · · · · · · · · · · · · · · · · · ·		-	
		_	2.0
ZK-7, HCC-8, ZK-9,	RKS-26, RKS-27		
ZK-4, ZK-5, LC-6	SW 3, SW-4,	1 1 5 Psychology and	
LC-1, LC-2 LC-3	SW-1, SW-2,		
SC-22, SC-24			
SC-20, SC-21,	CPF 3, CPF-4		
SC-17,	PSD-1, PSD-2		
SC 9, SC-13, SC-15,	10, RTSMS-11		
4, SC-5 SC-6 SC-7	RTSMS-7 RTSMS-9 RTSMS	Organization	
SC-1, SC-2, IC-3, IC	RTSMS-4 RTSMS-5 RTSMS-6	and Research	8.0
12, LC-13, LC-15,	RTSMS-1 RTSMS-2 RTSMS-3	1.1.4. Methodology	
LC-10, LC-11, LC-	RKS-21, RKS-26		
	, ,		
,	, ,		
	12, LC-13, LC-15, SC-1, SC-2, IC-3, IC 4, SC-5 SC-6 SC-7 SC 9, SC-13, SC-15, SC-17, SC-20, SC-21, SC-22, SC-24 LC-1, LC-2 LC-3 ZK-4, ZK-5, LC-6	ZK-4, ZK-5, LC-6 ZK-7, HCC-8, ZK-9, LC-10, LC-11, LC- 12, LC-13, LC-15, SC-1, SC-2, IC-3, IC 4, SC-5 SC-6 SC-7 SC 9, SC-13, SC-15, SC-17, SC-20, SC-21, SC-22, SC-24 LC-1, LC-2 LC-3 ZK-4, ZK-5, LC-6 ZK-7, HCC-8, ZK-9, LC-10, LC-12, LC- 13, LC-15 SC-15, SC-17 LC-1, LC-2 LC-3 LC-5, LC-6 LC-7, HCC-8, LC-9, LC- 10, SC-22, SC-24 LC-1, LC-2 LC-3 LC-5, LC-6 LC-7, HCC-8, LC-9, LC- 10, SC-22, SC-24 LC-1, LC-2 LC-3 LC-5, LC-6 LC-7, HCC-8, LC-9, LC- 10, SC-22, SC-24 LC-1, LC-3, ZK-4, ZK-5, LC-6 LC-7, HCC-8, LC-9, LC-10, LC-12, LC-13, LC- 14, ZK- 15, SC-1, SC-2, IC- 3, IC 4, SC-5 SC-6 SC-7 SC-8, SC-10, SC-11, SC- 10, SW-1, SW-2, SW-1, SW-2, SW-1, SW-2, SW-1, SW-26 RTSMS-3 RTSMS-7 RTSMS-9 RTSMS 10, RTSMS 11	ZK-4, ZK-5, LC-6 ZK-7, HCC-8, ZK-9, LC-10, LC-11, LC- 12, LC-13, LC-15, SC-1, SC-2, IC-3, IC 4, SC-5 SC-6 SC-7 SC 9, SC-13, SC-15, SC-17, SC-20, SC-21, SC-22, SC-24 LC-1, LC-2 LC-3 ZK-4, ZK-5, LC-6 ZK-7, HCC-8, ZK-9, LC-10, LC-12, LC- 13, LC-15 SC-17, SC-20, SC-21, SC-22, SC-24 LC-1, LC-2 LC-3 ZK-4, ZK-5, LC-6 ZK-7, HCC-8, ZK-9, LC-10, LC-12, LC- 13, LC-15 SC-15, SC-17 LC-1, LC-2 LC-3 LC-5, LC-6 LC-7, HCC-8, LC-9, LC- 10, SC-22, SC-24 LC-1, LC-2 LC-3 LC-5, LC-6 LC-7, HCC-8, LC-9, LC- 10, SC-22, SC-24 LC-1, LC-3, LC- 10, LC-12, LC-1 10, LC-12, LC-13, LC- 10, LC-12, LC-13, LC- 14, ZK-15, SC-1, SC-2, IC- 3, IC 4, SC-5 SC-6 SC-7 SC-8, SC-10, SC-11, SC- 13, SC-15, SC-22, SC-24 RTSMS-9 RTSMS-1 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-2 RTSMS-5 RTSMS-6 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-2 RTSMS-3 RTSMS-2 RTSMS-3 RTSMS-3 RTSMS-7 RTSMS-9 RTSMS 10, RTSMS 11 1.1.4. Methodology and Research Organization 1.1.5. Psychology and methods of teaching specialized subjects in high school specialized subjects in high school 1.1.6. Foreign language for professional purposes 1.1.6. Foreign language for professional purposes 1.1.7. Physical education (pozakredytna discipline)

1.2 Cycle	LC-1, LC-3, ZK-4, ZK-5,	SW-1, SW-12, SW-18, SW-19,		
training (forming	LC-1, LC-3, ZK-4, ZK-3, LC-6 LC-7, HCC-8, ZK-9,	SW-20, SW-24, SW-26, SW-27		
special	LC-10, LC-11, LC-12,	RTSMS-1 RTSMS-2 RTSMS-3	1.2.1 Sustainable	
<u> </u>	LC-10, LC-11, LC-12, LC-13, LC-14, LC-15,	RTSMS-4 RTSMS-5 RTSMS-6	Development Strategy	3.0
(professional)			Development Strategy	
competence)	SC-14, SC-15, SC-18,	RTSMS-7 RTSMS-8 RTSMS-9		
	SC-22			
	LC-1, LC-3, ZK-4, ZK-5,	SW-1, SW-2, SW 3, SW 4, SW		
	LC-6 LC-7, HCC-8, LC-9,	5, SW-6, SW-7 SW-8, SW 9,		
	LC-10, LC-12, LC-13, LC-	SW 10, SW 11, SW-12 RKS-	1.2.2 System analysis	
	14, ZK- 15, SC-1, SC-2, IC-	16, SW-17, SW-24, SW-26	of environmental	8.5
	3, IC 4, SC-5 SC-6 SC-7	RTSMS-1 RTSMS-2 RTSMS-3	quality	0.0
	SC-8, SC 9, SC-10, SC-11,	RTSMS-5 RTSMS-6 RTSMS-8	quanty	
	SC-13, SC-19, SC-20, SC-	RTSMS-9, 10-RTSMS		
	21, SC-22, SC-24			
	LC-1, LC-2 LC-3,	SW-1, SW-3,		
	ZK-4, ZK-5, LC-6	SW 4, SW-5,		
	LC-7, HCC-9, LC-	SW-6, SW-13, SW-14	1.2.3 Environmental	
	10, LC-15,	RKS-22, RKS-23	Management and	3.0
	SC-16, SC-17, SC-	RTSMS-1 RTSMS-2 RTSMS-3	Audit	3.0
	19, SC-20, SC-21,	RTSMS-4 RTSMS-5 RTSMS-6	Audit	
	SC-22, SC-24	RTSMS-7 RTSMS-9 RTSMS		
		10, 11 RTSMS		
	LC-1, LC-3, ZK-4, ZK-5,	SW-1, SW-2, SW 3, SW 4, SW		
	LC-6 LC-7, HCC-8, LC-9,	5, SW-6, SW 9, SW 10, SW		
	LC-10, LC-12, LC-13, LC-	11, SW-12, SW-16, SW-17		
	14, ZK- 15, SC-1, SC-2,	RKS- 24, SW-26 RTSMS-1	1.2.4 GIS technology	4.0
	SK-5, SK-6 SK-7, SC-8,	RTSMS-2 RTSMS-3 RTSMS-5	in Ecology	4.0
	SC-11, SC-13, SC-19, SC-	RTSMS-6 RTSMS-7 RTSMS-8		
	20, SC-21, SC-22, SC-24	RTSMS-9 RTSMS 10, 11		
	, , , , , , , , , , , , , , , , , , , ,	RTSMS		1
		1- 1-		

LC-1, LC-2 LC-3, ZK-4, ZK-5, LC-6 LC-9, LC-11, LC-13, HCC-14 HCC-15 SC-1, SC-2, IC-3, IC 4, SC-5 SC-6 SC-7 SC-8, SC 9, SC-10, SC-11, SC-12, SK- 13, SC-14, SC-15, SC-16, SC-17, SC- 21, SC-22, SC-23, SC-24	SW-1, SW-2, SW 3, SW 4, SW 5, SW-6, SW-7 SW-8, SW 9, SW 10, SW 11, SW-12 RKS-13, SW-14, SW-15, SW-16, SW-17, SW-18, SW-19, SW-20, SW-21, SW-24, SW-25, SW-28 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-4 RTSMS-5 RTSMS-6 RTSMS-7 RTSMS-8 RTSMS-9 RTSMS-10, RTSMS-11 PSD-1, PSD-2, CPF 3, CPF-4	1.2.5 Training and qualifying master's thesis State certification	25.5
		Just 1.2	44.0
LC-1, LC-2 LC-3, ZK-4, ZK-5, LC-6 LC-7, HCC-9, HCC- 13 HCC-14 HCC-15 SC-1, SC-2, IC-3, IC 4, SC-5 SC-6 SC-7 SC-8, SC 9, SC-10, SC-11, SC-12, SK- 13, SC-14, SC-15, SC-16, SC-17, SC- 21, SC-22, SC-23, SC-24	SW-1, SW-2, SW 4, SW-6, SW-14, SW-15, SW-16, SW-17 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-4 RTSMS-5 RTSMS-6 RTSMS-7 RTSMS-8 RTSMS-9 RTSMS 10, 11 RTSMS	2.2.1 Environmental Technology	5.0

LC-1, LC-2 LC-2 ZK-4, ZK-5, LC-1 LC-9, LC-11, LC HCC-14 HCC-15 SC-1, SC-2, IC-2 4, SC-5 SC-6 SC	SW 15, SW-16, SW-17, SW-2-13, SW-28 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-5 RTSMS-6 RTSMS-7 RTSMS-8 RTSMS-9 RTSMS	2.2.2 Basics of environmental technologies	3.0
SC-14, SC-20, S 21, SC-23 LC-1, LC-3, ZK- ZK-5, LC-6 LC-9 LC-10, LC-13, H 14 HCC-15 SC-1, SC-2, IC-3 IC-6 SC 9, SC-1 SC-15	24, SW-1, SW-2, SW 4, SW 8, SW 9, SW-12, SW-15, SW-17, SW-1CC- 24 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-4 RTSMS-5 RTSMS-6 RTSMS-7 RTSMS-8 RTSMS-9 RTSMS 10, 11 RTSMS	2.2.3 The Basics of distribution of harmful substances in the biosphere	2.0
LC-1, LC-2 LC-2 ZK-4, ZK-5, LC-1 LC-9, LC-10, LC HCC-14 HCC-15 SC-1, SC-2, IC-2 SC-6 SC-13, SC- SC-21, SC-22, S 23, SC-24	5, SW-6, SW-7, SW 9, SW-14, SW-13, SW-16, SW-17 RTSMS-1 RTSMS-2 RTSMS-3 RTSMS-4 RTSMS-5 RTSMS-6 RTSMS-7 RTSMS-8 RTSMS-9	2.2.4 conduct of the water resources	6.0
		2.2.5 One of the modules module 1	

1 0 1	102102	CW 1 CW 2 CW 27		
	LC-2 LC-3	SW-1, SW-2, SW-27		
	LC-7, HCC-8,	RTSMS-1 RTSMS-2 RTSMS-3		
	LC-10, LC-11,			
	L, LC-13,	RTSMS-9 RTSMS 10,		
HCC-		RTSMS-11	assistant practice	4.5
7	SC 9, SC-10,	RPS-4		
	, SC-13, SC-			
· ·	C-15, SC-20,			
SC-24				
	LC-3, ZK-4,	SW-1, SW-2, SW 3, SW 4,		
	LC-6 LC-8, 9-	SW-6, SW-7 SW-8, SW 9, SW		
HCC,	LC-10, LC-11,	10, SW 11, SW-13, SW-15		
LC-13	, LC-14,	RKS- 16, SW-17, SW-25		
HCC-	15	RTSMS-1 RTSMS-2 RTSMS-3		
SC-1,	SC-2, IC-3, IC	RTSMS-4 RTSMS-6 RTSMS-7	Research practice	6.0
4, SC-	-5 SC-6 SC-7	RTSMS-8 RTSMS-9 RTSMS		
SC-8,	SC 9, SC-13,	10, RTSMS-11		
SC-14	, SC-15, SK-	PSD-1, PSD-2, CPF 3, CPF-4		
16, SC	C-17, SC-19,			
SC-20	, SC-21, SC-24			
			module 2	
LC-1,	LC-2 LC-3	SW-1, SW-2, SW-27		4.5
LC-6	LC-7, HCC-8,	RTSMS-1 RTSMS-2 RTSMS-3		
LC-9,	LC-10, LC-11,	RTSMS-5 RTSMS-6 RTSMS-7		
LC-12	L, LC-13,	RTSMS-9 RTSMS 10, RTSMS-		
HCC-	15	11	assistant practice	
SC-2,	SC 9, SC-10,	RPS-4	_	
SC-12	, SC-13, SC-			
14, SC	C-15, SC-20,			
SC-24				

LC-1, LC-3, ZK-4,	SW-1, SW-2, SW-6, SW-7 SW-		6.0
ZK-5, LC-6 LC-8, 9-	8, SW 9, SW 10, SW 11, SW-		0.0
HCC, LC-10, LC-11,	12, SW-13, SW-14, SW-15		
LC-13, LC-14,	RKS- 16, SW-17, SW-18, SW-		
HCC-15	19, SW-20, SW-21, SW-22,		
SC-1, SC-2, IC-3, IC	SW-24, SW-25, SW-26, SW-28	Research and	
4, SC-5 SC-6 SC-7	RTSMS-1 RTSMS-2 RTSMS-3	production practice	
SC-8, SC 9, SC-13,	RTSMS-4 RTSMS-6 RTSMS-7		
SC-14, SC-15, SK-	RTSMS-8 RTSMS-9 RTSMS		
16, SC-17, SC-19,	10, 11 RTSMS		
SC-20, SC-21, SC-			
23, SC-24			
		TOTAL 1.2	70.5
		TOTAL	90.0

Table 4. Matrix compliance software competencies training component

	N 1 0		1144	71 121	CO.	<u>P</u>	Hai	100	DUL		110	CUL	np.			יט טי	t dillill	ig com	Pone	110
cipline um																		2.5 Iule 1		2.5 Iule 2
Code of discipline curriculum	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.2.1	1.2.2	1.2.3	1.2.4	1.2.5	2.2.1	2.2.2	2.2.3	2.2.4	assistant practice	Research practice	assistant practice	Research and production practice
INT	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
TSP-1	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
LC-2		+		+	+	+				+		+	+	+		+	+		+	
LC-3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
ZK-4	+	+		+	+		+	+	+	+	+	+	+	+	+	+		+		+
LC-5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+
LC-6		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
LC-7		+	+	+	+	+	+	+	+	+	+		+				+		+	
LC-8	+	+	+	+	+	+	+	+	+		+						+	+	+	+
LC-9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
HCC-10	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+
HCC-11	+		+	+			+					+		+			+	+	+	+
HCC-12			+	+	+		+	+	+		+						+		+	
HCC-13	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+
HCC-14	+	+	+				+	+	+		+	+	+	+	+	+		+		+
HCC-15	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
SC-1	+	+	+	+	+			+	+		+	+	+	+	+	+		+		+

		1				ı	1	1		1		1	ı	ı					1	
SC-2	+	+		+	+			+	+		+	+	+	+	+	+	+	+	+	+
SC-3	+	+		+				+	+			+	+	+	+			+		+
SC-4	+	+		+				+	+			+	+	+		+		+		+
SK-5	+	+		+				+	+		+	+	+	+				+		+
SC-6	+	+	+	+				+	+		+	+	+	+	+	+		+		+
SC-7	+			+				+	+		+	+	+					+		+
SK-8	+		+					+	+		+	+	+					+		+
SC-9	+		+	+					+			+	+		+		+	+	+	+
SC-10								+	+			+	+				+		+	
SC-11								+	+		+	+	+							
SC-12		+			+							+	+				+		+	
SC-13		+		+				+	+		+	+	+	+	+	+	+	+	+	+
SC-14	+						+					+	+	+			+	+	+	+
SC-15				+	+		+	+				+	+		+		+	+	+	+
SC-16										+		+	+					+		+
SC-17				+	+					+		+	+					+		+
SC-18			+				+													
SC-19									+	+	+							+		+
SC-20		+	+	+					+	+	+			+		+	+	+	+	+
SC-21		+		+					+	+	+	+	+	+		+		+		+
SC-22		+		+		+	+	+	+	+	+	+	+	+		+				
SC-23												+	+	+		+				+
SC-24		+		+		+		+	+	+	+	+	+			+	+	+	+	+

Table 5. Matrix Software learning outcomes associated components

Educational and vocational programs

											<u> </u>				<u> </u>	<u> </u>				
cipline um																	2.2 mod	2.5 ule 1	2. mod	.2.5 Iule 2
Code of discipline curriculum	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6	1.1.7	1.2.1	1.2.2	1.2.3	1.2.4	1.2.5	2.2.1	2.2.2	2.2.3	2.2.4	assistant practice	Research practice	assistant practice	Research and production practice
SW-1.	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
SW-2.	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
SW-3.		+		+	+				+	+	+	+				+		+		
SW-4.	+	+		+	+			+	+	+	+	+	+		+	+		+		
SW-5.	+	+	+					+	+	+	+	+				+				
SW-6.	+		+					+	+	+	+	+	+			+		+		+
SW-7.									+			+				+		+		+
RCS-8.									+			+			+			+		+
SW-9.									+		+	+		+	+	+		+		+
SW-10.									+		+	+		+				+		+
SW-11.									+		+	+						+		+
SW-12.	+		+						+		+	+			+					+
CSW-13										+		+						+		+
CSW-14	+									+		+	+			+				+
SW-15.			+									+	+	+	+			+		+
SW-16.								+	+		+	+	+	+		+		+		+

CSW-17						Ι.		Ι.												. 1
				+		+		+	+		+	+	+	+	+	+		+		+
CSW-18				+			+					+								+
CSW-19				+			+					+								+
CSW-20				+			+					+								+
CSW-21				+								+		+						+
CSW-22										+										+
CSW-23										+										
CSW-24	+		+				+	+	+		+	+			+					+
CSW-25		+										+						+		+
CSW-26		+		+	+	+	+	+	+		+									+
CSW-27					+		+										+		+	
CSW-28												+		+						+
RTSMS-1.		+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS-2.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS-3.		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS-4.	+	+		+	+		+			+		+	+		+	+		+		+
RTSMS-5.	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+		+	
RTSMS-6.	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS-7.	+	+		+	+	+	+			+	+	+	+	+	+	+	+	+	+	+
RTSMS-8			+				+	+	+		+	+	+	+	+	+		+		+
RTSMS 9	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS 10	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+
RTSMS 11	+	+	+	+		+				+	+	+	+	+	+	+	+	+	+	+
RPS-1.				+								+						+		
RPS-2.				+								+						+		
RPS-3.				+								+						+		
MRF-4.	+			+			+					+					+	+	+	

III - FORMS CERTIFICATION applicants HIGHER EDUCATION

Forms certification	Mandatory state certification form set performance
candidates Higher	and protection qualification (diploma) papers (projects).
Education	In the state certification system submitted
Education	competencies and learning outcomes listed in Sections
	IV and V.
	The main means of objective control the degree of
	achievement of the ultimate goals of education and
	training are the masters and protection technology of
	qualification (diploma) papers (projects), which is
	defined in the following documents: Regulation on the
	EC, Guidance for qualification (degree) projects (work
).
Requirements for final	Requirements for final qualifying work outlined in
qualifying work	the Guidance for qualification (degree) project (work).
(in the presence)	Final qualifying works accompanied by a supervisor
	review and review reviewer on which rests the
	completeness tasks, work quality and its overall check
	for plagiarism.
Requirements for	
attestation / single state	
qualifying exam (exam)	
(in the presence)	
Requirements for	Requirements for public protection set out in the
public protection	Regulation on the EC and Guidance for qualification
(demonstration)	(degree) project (work).
(in the presence)	

IV - Requirements presence of internal quality assurance

higher education

Determined in accordance with European standards and guidelines on quality assurance (ESG) and Article 16 of the Law of Ukraine "On Higher Education"

The system of	Definitions, links and documents
internal quality	,,
assurance	
The principles and	- Law of Ukraine "On education" from 01.07.2014 g.
procedures for	Number 1556-VII;
quality assurance	 Provisional Regulations on the organization of educational process in SHEE UDHTU (Rector UDHTU Order of 30.11.2015 number 290); Regulations on honors degree SHEE UDHTU (Rector UDHTU Order of 25.02.2016 number 55); The provisions on the establishment and organization of the examination commission SHEE UDHTU (Order of 01.04.2015, the rector. Number 68); The provisions of the development approval and review of work programs of disciplines (Order of Rector UDHTU 01.12.15 №291)
Monitoring and	/
periodic review of	labor market, watching educational programs, curricula,
education programs	working programs of disciplines. On approval of the
education programs	project groups to develop educational programs (Rector UDHTU Order of 10.03.2016 number 74)
The annual	·
evaluation of higher	03.17.2014, the rector. №78)
education applicants	, in the second of the second
The annual	Regulations of the Rector control
evaluation of science	pedagogical skills of teaching staff of the University
teaching and	(Order of the Rector UDHTU 04.04.2016r. №85), The
teaching staff of	application rating system performance evaluation of
higher educational	
institution	rector. Number 209 amended the order dated
	09.06.2011 g. Number 147), The application rating
	system of evaluation of departments and faculties
	SHEE UDHTU (Order of 04.06.2010, the rector.
	number 209).
	Regular publication of the results of such assessments

	to the official website of the university, on notice boards
	and in any other way
Advanced training of	Advanced training of teaching staff is under provisions
scientific and	approved by Mona of 24.01.2013r. Number 48 and the
pedagogical,	Regulations on training and teaching and training of
educational and	teaching staff SHEE UDHTU (Order UDHTU Rector of
scientific workers	28.05.2016r. №105)
Having the necessary	Educational and methodical, logistical and staffing
resources to the	meets licensing requirements (Decree km from
educational process	30.12.2015r. Number 1187) educational activities.
	License series AE №636496. Certificates in the areas of
	specialties.
Availability of	Temporary regulations on the organization of
information systems	educational process in SHEE UDHTU (Rector UDHTU
for the efficient	Order of 30.11.2015 number 290) is supported by
management of the	information-analytical system of control of the
educational process	educational process, which consists of subsystems:
	Applicants educational process.
Publicity of	1 6 , 6
information on	education degrees and qualifications is fully public and
educational	published on the official web-portal of the University
programs, higher	http://udhtu.com.ua
education degrees	
and qualifications	
Prevention and	Check completeness of tasks, work quality and its
detection of academic	overall check for plagiarism carried teacher - supervisor
plagiarism	course or thesis (project) in the prescribed manner using
	appropriate software.