CABINET OF MINISTERS OF UKRAINE NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE

EDUCATINON PLANE training specialists of 2013 year of entry

Educational qualification level "Master"

Area of knowledge 0401 "Natural Sciences"

Specialty 8.04010601 "Ecology and Environmental Protection"

Specialization Productional

Master programs "Environmental control in the agrosphere: monitoring, certification and

expertise", "Ecology and protection of water recourses of agrosphere",

"Methods for ecological control of environmental objects"

Specialization Reserch

Master programs "Quality of Environment and System Analysis: Quality of Soil and system

analysis of terrestrial ecosystems", "Quality of Environment and System Analysis: Water Quality and systems analysis of aquatic ecosystems",

"Environmental Management and Policy", "Environmental governance and

Policy"

The form of education full-time
The term of education 1.5 years

Qualification Ecologist; teacher of of higher education institution

Implementers the training of Masters

ERI of Crop production, Ecology and Biotechnology

Department of Ecology and Sustainable Development

Chair Ecology of agrosphere and Ecological Control, Analitical, Bioinorganic

Chemisty and Water Quality

I. THE TRAINING PROCESS SCHEDULE

a) of training specialists "Master" of 2013 year of entry 8.04010601 specialty "Ecology and Environmental Protection"

_									201	13 y	ear																								2014	рік															
udy	S	Sept	emb	er	30	O	ctob	er	28		Nov	emb	er		De	cem	oer	30	J	anua	ary	27	Fa	abru	ary	24		Ma	arch	ı	31	A	pril	28	3	N	Iay			Ju	ıne		30		July	1	28		Aug	gust	
fst	2	9	16	23	IX	7	14	21	\mathbf{X}	4	11	18	2	5	2	9 1	6 23	XI	I 6	13	20	I	3	10	17	II	3	10	17	24	Ш	7	14 2	21 IV	5	12	19	26	2	9	16	23	VI	7	14	21	VII	4	11	18	25
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-	1	2	3	4	5	6	7	8	9	10	11	12	1	3	14 1	5 1	6 17	18	19	20	21	22	23	3 24	25	26	27	28	29	30	31	32	33 3	34 35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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6) of training specialists "Master" of 2012 year of entry 8.04010601 specialty "Ecology and Environmental Protection"

_										20	13 y	/ear																									201	l4 ye	ear															
udy	Se	epte	eml	ber	1.5	30	Oc	tob	er	28		No	vem	ıbeı	r]	Dec	emb	er	30		Janu	ary	2'	7	Fabi	ruar	y	24	I	Marc	ch	3	31	Ap	ril	28		N	I ay			Jı	une		30	J	July		28		Aug	gust	
f st	2	9	10	6 2	3 1	IX	7	14	21	X	4	1.	1 1	8	25	2	9	16	23	XI	I 6	13	20) 1	ιΓ	3 1	10 1	١7	II	3	10 1	17 2	24 I	II	7 1	4 21	IV	5	12	19	26	2	9	16	23	VI	7	14	21	VII	4	11	18	25
r o						5				2										4				1	l				1				5	5			3									5				2				
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~	1	2	3	4	4	5	6	7	8	9	10	1	1 1	2	13	14	15	16	17	18	19	9 20	21		2 2	23 2	24 2	25	26	27	28 2	29 3	30 3	31 3	32 3	3 34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
II												:		:	II	II	II	II	//																																			

Legend:

- theoretical education

- examination period

- holidays

X - Scientific and productional

- preparation of qualification master's work

- state attestation (state exam and defense of master's thesis)

- pedagogical (assistant) practice

II. CURRICULUM TRAINING OF LEVEL "MASTER"

		The t			e forms ledge co	-	Lectu	ıre sess	ions (h	ours)			ctical ning	wed year	stributio ekly hours of stud semester	rs by y and
				(on	semeste	ers)		i	ncludii	ng	ork		47	1	р.н.	2 р.н.
						$\overline{\Omega}$					Independent work	3	tice		Semeste	1
№	Subject					ect			ies	es	len	acti	rac			
312	Subject	50	Š)roj	_		nd	icis 🥸	end	Pra	g P	1	2	3
		hours	credits	Е	+	k (p	Total	Lecture	y st	ctical exerc (seminars)	lep	lal	ri.	Numb	er of we	
		þ(S.	exam	test	'orl	Ţ	ect	tor	al 6	Inc	tion	ctu		semeste	r
				3		Course work (project)		Ľ	Laboratory studies	Practical exercises (seminars)		Educational Practice	Manufacturing Practice	17	19	10
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				NORMA												
			cycle of h	umanita	rian an	d socio-		c train	ing*							
1	Civil Defence	54	1,5		1		19			19	35				1	
2	Labour Protection at industry	54	1,5	1			19	10		9	35				1	
3	Pedagogics and psychology of higher school	72	2	1		1	34	17		17	38			2		
4	Methodology of teaching at higher school	54	1,5		1		17	17			37			1		
5	Methodology and organization of scientific researches	72	2	1			34	17	17		38			2		
Tota	ıl	306	8,5	3	2	1	123	61	17	45	183	0	0	5	2	0
	,			.2. Cycle	of Scie	nce Tra					•			•	,	
1	Information Technologies	108	3		1	1	38	19	19		70				2	
2	Environmental Management and Audit	72	2		1		34	17		17	38			2		
3	Strategy of sustainable development	108	3	1	1		38	19		19	70			1	2	
4	International Standardisation and Certification	72	2	4	1		17	17		20	55			1		
5	Environmental Systems Analysis	216	6	1			57	19		38	159				3	
6	Basics of Geo-Information Science and Geo- Information Monitoring	108	3	1			38	19		19	70				2	
7	Environmental Standardisation and Certification	108	3	1			38	19		19	70				2	
Tota	ıl	792	22	4	3	1	260	129	19	112	532	0	0	3	11	0
Tota	ıl	1098	30,5	7	5	2	383	190	36	157	715	0	0	8	13	0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
			II. SA	MPLE T				ES								
						ce of NU										
		100	2.1.1. Cy	cle of pr	rofessio	nal and			ration*	4.5		1	1		1	
1	Environmental Policy	108	3	1	-		51	34		17	57			3		
2	Agrarian Policy	72	2		1		17	17			55			1		
3	Intellectual Property and World's Information Resources	72	2		1		38	19		19	34				2	
4	Radioecology	144	4		1		38	19		19	106				2	
5	The problems of ecological safety and optimization of modern concepts of nature	144	4		1		38	19		19	106				3	
6	Philosophy of Science and innovation	54	1,5	1			34	17		17	20			2		
7	Business Foreign Language (English)	54	1,5	1			34			34	20			2		
8	Agricultural, land and environmental law	54	1,5		1		17	17			37			1		
9	Strategy of sustainable development of nature and society	72	2	1			17	17			55			1		
Tota	·	774	21,5	1	4	0	182	108	0	74	358	0	0	4	7	0
		•	•	2.2. (Choice o	f studen	ts		•			•			•	
		2.2.	1. Cycle o	of profes	sional a	nd prac	tice prej	paratio	n*							
		Master p	rogram '	Enviro	ımental	and wa	ter qual	ity prot	tection ²	"						
1	Water quality monitoring in agrosphere	108	3	1			40	20	20		68					4
2	Wastewater treatment	216	6	1			40	10	30		176					4
3	The methodology of modern chemical analysis and environmental chemistry	216	6	1			40	20	20		176					2
4	Environmental safety of water ecosystems	108	3		1		60	30	30		48					6
Tota		648	18	3	1	0	180	80	100	0	468	0	0	0	0	16
	Master progr	am "Envi	ronmenta	al contro	l in agr	osphere	: monito	ring, co	ertifica	tion, ex	pertise"					
1	Agroecology	216	6	1			40	20	20		176					4
2	Ecological expertise in agriculture (ahrobiotehnolohiy)	144	4	1		1	50	20		30	94					6
3	Environmental monitoring and control (monitoring, certification, management, inspection)	216	6	1			60	20	40		156					5
4	Agrarian Biotechnologies	72	2		1		30	10	20		42					3
Tota	l	648	18	3	1	1	180	70	80	30	468	0	0	10	14	18
	Master program "]	Environm	ental Sys	tems An	alysis: S	Soil Qua	lity and	Enviro	nment	al Syste	ms Ana	lysis"				
1	Soil Quality Monitoring and Land Evaluation	216	6		1		40	20		20	176					4
2	Environmental Expertise in Agriculture	108	3	1		1	50	20		30	58					5
3	Environmental Monitoring and Land Certification	216	6	1			50	20	30		166					5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	Land Management	108	3	1			40	20		20	68					4
Tota	l	648	18	3	1	1	180	80	30	70	468	0	0	0	0	18
	Master program "E	nvironmen	tal Syste	ms Ana	lysis: W	ater Qu	ality and	l Envir	onmer	tal Syst	tems An	alysis"				
1	Aquatic Ecosystems	108	3		1		40	20		20	68					4
2	Hydroecology	108	3	1			40	20		20	68					4
3	Environmental safety of aquatic ecosystems and water quality monitoring	216	6	1			40	20		20	176					4
4	Water Management	216	6	1			60	30		30	156					6
Tota	1	648	18	3	1	0	180	90	0	90	468	0	0	0	0	18
			progran	ı "Envir	onment	tal Man	agement	and Po	olicy"							
1	International Environmental Policy	180	5	1			40	20	20		140					4
2	Environmental Inspection	144	4		1		60	20	40		84					6
3	State Environmental Management	180	5	1			40	20	20		140					4
4	Environmental Impact Assessment: Regional Management	144	4	1			40	20	20		104					4
Tota		648	18	3	1	0	180	80	100	0	468	0	0	0	0	18
	Ma	ister progr	am "Met	thods of	ecologi	cal cont	rol envir	onmen	tal obj	ects"						
1	Methodology and technical support for modern environmental researches	216	6	1			50	20	30		166					5
2	System analysis of environmental quality objects and crop production.	180	5		1		40	20	20		140					4
3	Laboratory work (methods of control and assessing the quality of soil and water resources)	252	7	1			90	30	60		162					9
Tota		648	18	2	1	0	180	70	110	0	468	0	0	0	0	18
Tota		2520	70	11	10	2	745				1541			12	20	18
	aration and defense of master's thesis	432	12													
	tice preparation	288	8									216	72			
	ber of coursework					2										
Num	ber of tests				11											
Num	ber of examinations			13												
Tota	* Nomes of dissiplines avales in accordance w	3240	90	11	10	2	745	0	0	0	1541	216	72	12	20	18

^{*} Names of disciplines cycles in accordance with the requirements of higher education industry standards, ratified after 2007 year, EQH and EPP.

ІІІ. СТРУКТУРА НАВЧАЛЬНОГО ПЛАНУ

Educational disciplines	Hours	Credits	%
Normative educational	1260	35	39
disciplines	1200		
1.1. Cycle of humanitarian and			
socio-economic and professionally	468	13	15
oriented disciplines*			
1.2. Cycle of disciplines of natural			
and scientific, professional and	792	22	24
practical training*			
2. Selective educational courses	1260	35	39
2.1. Educational courses by	612	17	19
University choise	012	1 /	19
2.1.1. Cycle of disciplines of			
natural and scientific, professional	612	17	19
and practical training*			
2.2. Educational courses by	648	18	20
student choise	040	10	20
2.2.1. Cycle of disciplines of			
natural and scientific, professional	648	18	20
and practical training*			
3. Other workload	720	20	22
Total	3240	90	100

^{*} Names of disciplines cycles in accordance with the requirements of higher education industry standards, ratified after 2007 year, EQH and EPP.

IV. SUMMARY INFORMATION ABOUT BUDGET TIME, WEEKS

Year of education	Theoretical education	Examination period	Practical preparation	Preparation of baccalaureate work	State attestation	Holidays	Total
1	36	4	8	8		8	56
2	10	2		4	1		17
Total for EQL	46	6	8	12	1		73

V. PRACTICAL PREPARATION

№	Type of practice	Semester	Hours	Credits	Number of weeks
1	Scientific and productional	1,2	216	6	6
2	Pedagogical (assistant) practice	2	72	2	2

VI. COURSEWORKS AND PROJECTS

№	Discipline	Hours	Credits	Courseworks	Projects
1	Methodology of teaching in higher education			X	
2	Information technology			X	
3	Ecological Expertise for agriculture in production			X	

VII. STATE ATTESTATION

№	Content of state attestation	Hours	Credits	Number of weeks
1	Defense of master's thesis	36	1	1