

NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**BACHELOR'S PROGRAM IN SPECIALTY "PLANT PROTECTION"**

Level of qualification	<u>«Bachelor»</u>
Field of education	<u>0901 Agricultural and forestry</u>
Direction of training	<u>6.090105 «Plant Protection»</u>
Mode of study	<u>Full-time</u>
Official length of programme	<u>4 years</u>
Name of qualification	<u>3212 « Inspector of plant protection »</u>
Implement the program	
Education and Research Institute	<u>Plant Science, Environment and Biotechnology</u>
Faculty	<u>Plant Protection</u>

I. CURRICULUM

a) Training of specialists educational and qualification level «Bachelor» since 2013

Direction of training 6.090105 «Plant Protection»

Course	2013																2014																																								
	September				30	October				28	November				December				30	January				27	February				24	Mart				31	April				28	May				June				30	July				28	August			
	2	9	16	23	IX	7	14	21	X	4	11	18	25	2	9	16	23	XII	6	13	20	I	3	10	17	II	3	10	17	24	III	7	14	21	IV	5	12	19	26	2	9	16	23	VI	7	14	21	VII	4	11	18	25					
					5				2									4				1				1				5				3								5				2											
	7	14	21	28	X	12	19	26	XI	9	16	23	30	7	14	21	28	I	11	18	25	II	8	15	22	III	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VI	12	19	26	VIII	9	16	23	30					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52					
I																:	:	-	-											:										:	:	0	0	0	-	-	-	-	-	-	-	-	-				

b) Training of specialists educational and qualification level «Bachelor» training at the 2013-2014 school year

Direction of training 6.090105 «Plant Protection»

Course	2013																								2014																																			
	September					30	October				28	November					December					30	January				27	February				24	Mart				31	April				28	May				June				30	July				28	August			
	2	9	16	23	IX	7	14	21	X	4	11	18	25	2	9	16	23	XI	6	13	20	I	3	10	17	II	3	10	17	24	III	7	14	21	IV	5	12	19	26	2	9	16	23	VI	7	14	21	VII	4	11	18	25								
					5				2									4				1				1				5				3							5				2															
	7	14	21	28	X	12	19	26	XI	9	16	23	30	7	14	21	28	I	11	18	25	II	8	15	22	III	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VI	12	19	26	VII	9	16	23	30								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52								
I																	:	:	-	-									:									:	:	o	o	o	-	-	-	-	-	-	-	-	-									
II																	:	:	-	-									:									:	:	o	o	o	-	-	-	-	-	-	-	-	-									
III																	:	:	-	-									:	:	x	x	x	x	x	x	x	o	o	o	x	x	x	-	-	-	-	-	-	-	-	-								
IV																	:	:	-	-								:									:	//	//																					

Key:

	- theoretical education	X	- training at the enterprise
:	- examination period	O	- training practice
-	- vacation	II	preparation of Bachelor's thesis
		//	- state certification (comprehensive state exam and defense of Bachelor's thesis)

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II. Bachelors' Program in Specialty "Plant Protection"

№ п/п	Academic Discipline and practical training	Volume		Knowledge control (by semester)			Classroom training (hours)			Independent work of students	Training		Distribution of hours per week												
		Hours	Credits	Examinations	Written tests	Term paper (project)	Totally	including:			Training practice	Training at the enterprise	1 course		2 course		3 course		4 course						
								Lectures	Laboratories				Studies	1s	2s	3s	4s	5s	6s	7s	8s-1	8s-2			
														weeks											
														15	10	9	15	10	10	15	12	15	9	9	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1. NORMATIVE Academic Disciplines																									
1.1. Cycle of Humanities and Social-Economic training																									
1.	History of the Ukrainian culture	72	2	Ex			16	16			56			1	2										
2.	Philosophy	108	3	Ex			44	22		22	64					5									
3.	History of Ukraine	108	3	Ex			45	15		30	63			3											
4.	Ukrainian (for profession)	108	3	Ex			30			30	78				3										
5.	Foreign language	180	5		Wt		116		116		64			3	5	2									
6.	Physical education	216	6		Wt		70			70	146			2	2	2	2	2	2						
	Totally for the cycle	792	22	4	2		321	53	116	152	471	0	0	9	12	9	2	2	2	0	0	0	0	0	0
1.2. Cycle of Natural-Scientific training																									
1.	Botany	108	3	Ex			78	26	52		30	TP		3	3										
2.	Further Mathematics	72	2		Wt		48	16		32	24			3											
3.	Biophysics	72	2	Ex			48	16	32		24			3											
	Chemistry (professional), including	306	8,5				0							0											
4.	Inorganic chemistry	90	2,5	Ex			60	30	30		30			4											
5.	Analytical Chemistry	54	1,5		Wt		40		40		14				4										
6.	Organic Chemistry	72	2	Ex			40	20	20		32				4										
7.	Physical and Colloidal	90	2,5		Wt		60	30	30		30						4								
8.	Fundamentals of Computer Science	90	2,5		Wt		36	18	18		27					4									

9.	Agricultural meteorology	54	1,5		Wt		60	30	30		24			2										
10.	Ecology	90	2,5	Ex	Wt		24	8	16		66					2								
11.	Genetics	108	3		Wt		44	22	22		64					5								
12.	Plants Physiology with the bases of chemistry	108	3	Ex			50	20	30		58						5							
	Totally for the cycle	1314	37	6	7		588	236	320	32	423	0		15	11	9	6	5	0	0	0	0	0	0
1.3. Cycle of Professional and Practical training																								
1.	Soil Science with the Bases of Geology	108	3	Ex			60	30	30		48	TP					4							
2.	Chemical protection with the bases of toxicology	162	4,5	Ex			140	56	84		22	TP								5	5			
3.	Agricultural entomology	216	6	Ex		Tp	130	65	65		86	TP									6	4		
4.	Agricultural Plant Pathology	216	6	Ex		Tp	130	65	65		86	TP									6	4		
5.	The fundamentals of scientific researches in Plant Protection	90	2,5	Ex			80	20	60		10						8							
6.	Mechanization, Electrification and Automation of Agricultural Production	144	4	Ex			84	34	50		60	TP				4	3							
7.	Life Safety	54	1,5		Wt		18	9	9		36					2								
8.	General Mycology	162	4,5		Wt		104	52	52		58						4	4						
9.	Herbology	144	4	Ex		Tp	118	46	72		26	TP					3	4	3					
10.	Farming	108	3		Wt		50	20	30		58						5							
11.	Agricultural chemistry	108	3	Ex			60	30	30		48									4				
12.	Horticulture	108	3	Ex			50	20	30		58								5					
13.	Plant disease prognosis	90	2,5		Wt		60	30	30		30									4				
14.	Vegeculture	108	3		Wt		40	20	20		68								4					
15.	Crop production with basics of fodder production	144	4	Ex		Tp	75	30	45		69									5		2		
16.	Selection and Seed Farming	108	3		Wt		45	15	30		63									3		4		
17.	Technology of storage and processing of plant products	108	3		Wt		60	30	30		48												6	
18.	General plant phytopathology	180	5	Ex		Tp	147	54	93		33	TP								5	6			

	Practical Training	828	23																						
	State attestation	180	4																						
	Totally for the specialty	8640		38	56	0	3765	1539	2007	291	3509	0	0	30	30	30	30	30	30	30	30	30	30	30	30

III. STRUCTURE OF THE CURRICULUM

Courses title	Hours	Credits	%
1. NORMATIVE Academic Disciplines	5364	149	62
1.1. Cycle of Humanities and Social-Economic training	792	22	9,3
1.2. Cycle of Natural-Scientific training	1314	36,5	15
1.3. Cycle of Professional and Practical training	3258	90,5	37,7
2. SELECTIVE Academic Disciplines	2304	64	27
2.1. Disciplines at the choice of the University	1512	42	18
2.1.1. Cycle of Humanities and Social-Economic training	144	4	1,8
2.1.2. Cycle of Natural-Scientific training	450	12,5	5,2
2.1.3. Cycle of Professional and Practical training	918	25,5	11
2.2. Disciplines at the student's choice	792	22	9
2.2.1. Cycle of Humanities and Social-Economic training	144	4	1,7
2.2.2. Cycle of Natural-Scientific training	108	3	1,3
2.2.3. Cycle of Professional and Practical training	540	15	6
3. Other	972	27	11
Totally for the specialty	8640	240	100

IV. WEEKS

Courses	Theoretical studies	Examination period	Practical studies	State certification	Vacation	Total
1	34	4	4		10	52
2	35	5	3		9	52
3	27	4	12		9	52
4	35	4		3	2	42
Total	131	17	19	3	30	198

V. PRACTICAL STUDIES

Name	Semester	Weeks	Hours	Credits
Information and technological training	2	1	36	1
Training practice:				
Botany	2	1	36	1
Agricultural zoology	2	1	36	1
Mechanization, Electrification and Automation of	4	0,5	18	0,5

Agricultural Production				
Herbology	4	0,5	18	0,5
General plant phytopathology	4	0,5	18	0,5
General entomology	4	0,5	18	0,5
Mites, nematodes	4	0,5	18	0,5
Chemical protection of plants	6	0,5	18	0,5
Quarantine of plants	6	0,5	18	0,5
Agricultural entomology	6	1	36	1
Agricultural Plant Pathology	6	1	36	1
Training at the enterprise	6	8	396	9

VI. ACADEMIC YEAR PAPERS (PROJECT)

Name	Hours	Credits	Coursework	Course project
Herbology	72	2		1
General plant phytopathology	72	2	1	
General entomology	72	2	1	
Chemical protection of plants	72	2	1	
Agricultural entomology	36	1	0,5	
Agricultural Plant Pathology	36	1	0,5	
Total	360	10	4	1

VII. FINAL STATE CERTIFICATION

Name	Hours	Credits	Weeks
Comprehensive state exam	36	1	1
Preparation and defense of Bachelor's thesis	72	2	2
Total	108	3	3