Form № H- 3.01

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

Reviewed and approved
academic Council NUBiP Ukraine
«____» _____ 2013 year
(Protocol №_____)

«APPROVED»
Rector NUBiP Ukraine
_____ acad. D. Melnychuk
«____» _____ 2013 year

EDUCATINON PLANE
training specialists since 2013 year

Educational qualification level	«Bachelors' training»
Branch of knowledge	0901 «Agriculture and forestry»
Specialty	6.090101 «Agronomy»
Training form	full-time study
Training period	4 years
Qualification of graduates	technologist of Agronomy

Implement training of bachelors

SRI	institute of plant sciences, ecology and biotechnologies
Faculty	agrobiology

I. TRAINING PROCESS SCHEDULE

a) training specialists "Bachelor" since 2013 year

specialty 6.090101 «Agronomy»

rate	2013 year																		2014 year																																	
	September				30	October			28	November				December				30	January			27	February			24	March				31	April			28	May				June				30	July			28	August			
	2 7	9 14	16 21	23 28	IX 5 X	7 12	14 19	21 26	X 2 XI	4 9	11 16	18 23	25 30	2 7	9 14	16 21	23 28	XII 4 I	6 11	13 18	20 25	I 1 II	3 8	10 15	17 22	II 1 III	3 8	10 15	17 22	24 29	III 5 IV	7 12	14 19	21 26	IV 3 V	5 10	12 17	19 24	26 31	2 7	9 14	16 21	23 28	VI 5 VII	7 12	14 19	21 26	VII 2 VIII	4 9	11 16	18 23	25 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	0								-	-				:	:																	:	:	0	0	0	0						
II			0	0	0	0												-	-				:	:																	:	:	-	-	-	-	0	0	0	0	-	-
III																:	:	-	-									0			:	:	0	0	0	0	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-	-
IV				0	0											:	:	-	-															0			:	:	II	II	II	//	//									

Legend:

	-	theoretical training	X	-	industrial practice
:	-	examination period	O	-	teaching practice
-	-	vacation	II		preparation of baccalaureate work
			//	-	state certification (national examination and defense of bachelor life)

б) training specialists "Bachelor» for 2013-2014 academic year

specialty 6.090101 «Agronomy»

rate	2013 year																		2014 year																																	
	September				30	October			28	November				December				30	January			27	February			24	March				31	April			28	May				June				30	July			28	August			
	2 7	9 14	16 21	23 28	IX 5 X	7 12	14 19	21 26	X 2 XI	4 9	11 16	18 23	25 30	2 7	9 14	16 21	23 28	XII 4 I	6 11	13 18	20 25	I 1 II	3 8	10 15	17 22	II 1 III	3 8	10 15	17 22	24 29	III 5 IV	7 12	14 19	21 26	IV 3 V	5 10	12 17	19 24	26 31	2 7	9 14	16 21	23 28	VI 5 VII	7 12	14 19	21 26	VII 2 VIII	4 9	11 16	18 23	25 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	0								-	-				:	:														0	0				:	:	0	0						
II			0	0	0	0												-	-				:	:																0	0		:	:	-	-	0	0	-	-	-	-
III																:	:	-	-									0			:	:	0	0	x	x	x	x	x	x	x	x	x	x	0	0	-	-	-	-	-	-
IV																:	:	-	-									:	:	II	II	II	//	//																		

Legend:

	-	theoretical training	X	-	industrial practice
:	-	examination period	O	-	teaching practice
-	-	vacation	II		preparation of baccalaureate work
			//	-	state certification (national examination and defense of bachelor life)

Dean of the Faculty __________________ Igor O. Antipov

II. PLAN OF THE EDUCATIONAL PROCESS

№	Subjects	The total volume		Forms of knowledge control (by semester)			Audience lessons (hours)				Independent work	The work experience		The distribution of hours per week on courses and semesters							
		The total number of hours	The number of credits	Exam	Test	Coursework (project)	Total	including				Practical training	Industrial practice	1 course		2 course		3 course		4 course	
								Lectures	Lab works	Practical lessons				semesters							
														1c.	2c.	3c.	4c.	5c.	6c.	7c.	8c.
														number of weeks per semester							
														16	16	16	16	15	10	15	8
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1. NORMATIVE ACADEMIC DISCIPLINES																					
1.1. Cycle of humanitarian and socio-economic training																					
1	Ukrainian language (for professional purposes)	108	3.0	e			48		48		60			3							
2	Foreign Language (for professional purposes)	180	5.0	e	t		112		112		68			4	3						
3	History of Ukraine	108	3.0	e			48	16		32	60			3							
4	Philosophy	108	3.0	e			48	16		32	60				3						
5	The history of Ukrainian culture	72	2.0	e			32	16		16	40			2							
6	Politology	72	2.0		t		16	16							1						
	Physical training	216	6.0		t		128		128					2	2	2	2				
The total		**864**	**24**	**5**	**3**	**0**	**432**	**64**	**288**	**80**	**288**			**14**	**9**	**2**	**2**				
1.2. . Cycle of mathematical and natural-scientific training																					
7	Higher Mathematics (special focus)	72	2.0		t		32	16		16	40			2							
8	Physics the basics of	72	2.0		t		48	16	32		24			3							

	Biophysics																			
9	Chemistry (including inorganic chemistry and analytical chemistry	72	2.0	e			32	16	16		40			2						
	organic Chemistry	54	1.5	e			32	16	16		22				2					
	physical and Colloid Chemistry	54	1.5	e			32	16	16		22					2				
10	Botany	144	4.0	e	t		96	48	48		48	TP		2	4					
11	Ecology (special focus)	72	2.0		t		48	16	32		24				3					
12	Radiobiology	72	2.0		t		32	16	16		40						2			
13	Information Technology	72	2.0				32	16	16		40			2						
14	Genetics	108	3.0	e			64	32	32		44						4			
15	Plant physiology	108	3.0	e			80	32	48		28					5				
The total		**900**	**25**	**6**	**5**	**0**	**528**	**240**	**272**	**16**	**372**	**1**		**11**	**9**	**7**	**6**			
1.3. Cycle of professional and practical training																				
16	Agrometeorology	72	2.0		t		32	16	16		40				2					
17	Soil Science with the bases of geology	180	5.0	e	t	CW	128	48	80		52	TP	IP			3	5			
18	Entomology	126	3.5	e			75	30	45		51							5		
19	Phytopathology	126	3.5	e			60	30	30		66								6	
20	Mechanization, electrification and automation of agricultural production including																			
	tractors and cars	54	1.5		t		32	16	16		22	TP		2						
	agricultural machinery	90	2.5	e			64	32	32		26	TP					4			
	electrification and automation of agricultural production	54			t		32	16	16		22				2					
21	Basic research in agronomy	72	2.0		t		20	10	10		52								2	
22	Farming	180	5.0	e		CW	110	50	60		70	TP	IP					4	5	
23	Herbology	126	3.5	e			60	30	30		66								6	
24	Ahrofarmacology	108	3.0	e			64	32	32		44					4				

25	Plant Growing	234	6.5	e	t	CW	141	59	82		93	TP	IP						5	6	
26	Grassland and onion production	144	4.0	e			90	45	45		54	TP	IP							6	
27	Agrochemicals	162	4.5	e		CW	105	45	60		57	TP	IP					7			
28	Fruit-growing	162	4.5	e	t		105	45	60		57	TP	IP					3	6		
29	Vegetable growing	162	4.5	e			105	45	60		57	TP	IP					7			
30	Breeding and Seed Production of Agricultural crops	180	5.0	e	t		110	50	60		70	TP	IP							5	5
31	Technology of storage and processing of crop production	144	4.0	e	t		80	40	40		64	TP	IP							3	4
32	Standardization and quality control of crop production	72	2.0		t		48	16	32		24					3					
33	Stockbreeding	72	2.0		t		32	16	16		40				2						
34	Economics, business and management including																				
	economics,	72	2.0	e			30	10	20		42								3		
	business and management	72	2.0	e			45	15	30		27									3	
35	Basics of labor protection	90	2.5	e			64	32	32		26					4					
The total		**2754**	**75**	**17**	**11**	**0**	**1632**	**728**	**904**	**0**	**1122**	**11**	**9**	**2**	**6**	**14**	**9**	**26**	**33**	**23**	**9**
	2. SELECTIVE COURSES																				
	Selective courses signs in «Agronomy»																				
	2.1. Courses by the University selection																				
	2.1.1. Cycle of humanitarian and socio-economic training																				
1	Jurisprudence	90	2.5		t		32	16		16	58										2
The total		**90**	**2.5**	**0**	**1**	**0**	**32**	**16**	**0**	**16**	**58**										**2**
	2.1.2. Cycle of mathematical and natural-scientific training																				
1	Inorganic chemistry	72	2.0	e			32	16	16		40			2							
2	Analytical chemistry	72	2.0		t		48		48		24				3						
3	Organic Chemistry	72	2.0	e			16		16		56				1						
4	Physical and Colloid Chemistry	72	2.0	e			32	16	16		40					2					
5	Latin language	72	2.0		t		32		32		40			2							

The total		**360**	**10**	**3**	**2**	**0**	**160**	**32**	**128**	**0**	**200**			**4**	**4**	**2**					
	2.1.2. Cycle of professional and practical training																				
1	Agricultural virology	144	4.0		t		48	16	32		96						3				
2	Agricultural microbiology	144	4.0		t		48	16	32		96					3					
3	Biotechnology	144	4.0		t		48	16	32		96						3				
4	Plant Growing in greenhouses	180	5.0	e			64	32	32		116						4				
5	Fundamentals of commodity of crop production	144	4.0		t		48	16	32		96						3				
6	Programming of yields	126	3.5		t		45	15	30		81									3	
7	Agricultural melioration	108	3.0		t		30	15	15		78									2	
8	Industrial crops	234	6.5	e			80	40	40		154										10
	The total	**1224**	**34**	**2**	**6**	**0**	**411**	**166**	**245**	**0**	**813**					**3**	**13**			**5**	**10**
	2.2. Courses by the student selection																				
	2.2.1. Cycle of mathematical and natural-scientific training																				
1	Biological plant protection	90	2.5		t		20	10	10		70								2		
	Military training	675	18.8		t		450				225										
	Cultural and educational activities	665	18.5		t		284				381										
	The total	**90**	**2.5**	**0**	**1**	**0**	**20**	**10**	**10**		**70**										**0**
	2.2.2. Cycle of professional and practical training																				
1	Quality management of crop production in modern technologies	180	5.0	e			60	30	30		120							4			
2	Technology processing of crop production	108	3.0	e			48	24	24		60										8
3	Breeding and Seed heterotic hybrids	144	4.0	e			48	16	32		96										3
	The total	**432**	**12**	**2**	**4**	**0**	**156**	**70**	**86**	**0**	**276**							**4**			**11**
	TOTAL	**2232**	**62**	**7**	**14**	**0**	**815**	**330**	**469**	**16**	**1417**			**4**	**4**	**5**	**13**	**4**		**5**	**23**

	Selective courses signs in "Agrochemistry and Soil"																			
	2.1. Courses by the University selection																			
	2.1.1. Cycle of humanitarian and socio-economic training																			
1	Jurisprudence	90	2.5		t		30	15		15	60								2	
	The total	**90**	**2.5**	**0**	**1**	**0**	**30**	**15**	**0**	**15**	**60**								**2**	
	2.1.2. Cycle of mathematical and natural-scientific training																			
1	Inorganic chemistry	72	2.0	e			32	16	16		40			2						
2	Analytical chemistry	72	2.0		t		48		48		24				3					
3	Organic Chemistry	72	2.0	e			16		16		56				1					
4	Physical and Colloid Chemistry	72	2.0	e			32	16	16		40					2				
5	Latin language	72	2.0		t		32		32		40			2						
	The total	**360**	**10**	**3**	**2**	**0**	**160**	**32**	**128**	**0**	**200**			**4**	**4**	**2**				
	2.1.2. Cycle of professional and practical training																			
1	Agricultural virology	126	3.5		t		30	15	15		96								2	
2	Agricultural microbiology	126	3.5		t		48	16	32		78					3				
3	Plant Growing in greenhouses	180	5.0	e			64	32	32		116						4			
4	Geology with the basics of mineralogy	126	3.5		t		48	16	32		78	TP					3			
5	Biochemistry	108	3.0		t		30	10	20		78							3		
6	Geochemistry	108	3.0		t		30	15	15		78								2	
7	The system of fertilizer application	198	5.5	e		CW	90	45	45		108	TP							6	
8	Programming of yields	72	2.0		t		45	15	30		27								3	
	The total	**1044**	**29**	**2**	**6**	**0**	**385**	**164**	**221**	**0**	**659**					**3**	**7**	**3**	**13**	**0**
	2.2. Courses by the student selection																			
	2.2.1. Cycle of mathematical and natural-scientific training																			
1	Distance sensing of the Earth	90	2.5		t		30	15	15		60								2	
	Military training	675	18.8		t		450				225									
	Cultural and educational activities	665	18.5		t		284				381									

	The total	**90**	**2.5**	**0**	**1**	**0**	**30**	**15**	**15**		**60**										**0**
	2.2.2. Cycle of professional and practical training																				
1	Cartography of soil	144	4.0	e			60	30	30		84	TP						4			
2	Integrated Plant Protection	72	2,0		t		24	8	16		48										3
3	Methods of agrochemical research	108	3.0	e			48	24	24		60										6
4	Quality management of crop production	108	3.0		t		48	24	24		60										6
	Geographers of soils	108	3.0		t		48	16	32		60	TP					3				
5	Soil protection	108	3.0		t		32	16	16		76										4
	The total	**648**	**18**	**3**	**3**	**0**	**260**	**118**	**142**	**0**	**388**							**4**			**19**
	TOTAL	**2232**	**62**	**8**	**13**	**0**	**865**	**344**	**506**	**15**	**1367**			**4**	**4**	**5**	**7**	**4**		**15**	**19**
	Selective Courses signs in "Horticulture and viticulture"																				
	2.1. Courses by the University selection																				
	2.1.1. Cycle of humanitarian and socio-economic training																				
1	Jurisprudence	90	2.5		t		32	16		16	58										2
	The total	**90**	**2.5**	**0**	**1**	**0**	**32**	**16**	**0**	**16**	**58**										**2**
	2.1.2. Cycle of mathematical and natural-scientific training																				
1	Inorganic chemistry	72	2.0	e			32	16	16		40			2							
2	Analytical chemistry	72	2.0		t		48		48		24				3						
3	Organic Chemistry	72	2.0	e			16		16		56				1						
4	Physical and Colloid Chemistry	72	2.0	e			32	16	16		40					2					
5	Latin language	72	2.0		t		32		32		40			2							
	The total	**360**	**10**	**3**	**2**	**0**	**160**	**32**	**128**	**0**	**200**			**4**	**4**	**2**					
	2.1.2. Cycle of professional and practical training																				
1	Agricultural virology	126	3.5		t		48	16	32		78						3				
2	Agricultural microbiology	126	3.5		t		48	16	32		78					3					
3	Biotechnology	126	3.5		t		48	16	32		78						3				
4	Plant Growing in greenhouses	180	5.0	e			64	32	32		116						4				

5	Fundamentals of commodity of crop production	126	3.5		t		48	16	32		78						3				
6	Viticulture	162	4.5	e	t		77	31	46		85									3	4
7	Ornamental Horticulture	90	2.5		t		24	8	16		66										3
8	Agricultural melioration	108	3.0		t		32	16	16		76										2
	The total	**1044**	**29**	**2**	**7**	**0**	**389**	**151**	**238**	**0**	**655**					**3**	**13**			**3**	**9**
	2.2. Courses by the student selection																				
	2.2.1. Cycle of mathematical and natural-scientific training																				
1	Biological plant protection	90	2.5		t		32	16	16		58										2
	Military training	675	18.8		t		450				225										
	Cultural and educational activities	665	18.5		t		284				381										
	The total	**90**	**2.5**	**0**	**1**	**0**	**32**	**16**	**16**		**58**										**2**
	2.2.2. Cycle of professional and practical training																				
1	Nursery	108	3.0	e			60	30	30		48							4			
2	Seeds of vegetables	90	2.5	e			32	16	16		58										2
3	Vegetable growing in greenhouses	108	3.0	e	t		93	31	62		15	TP								3	6
4	Growing of vegetables in the open ground	108	3.0	e			48	16	32		60	TP									3
5	Pomolohiya	90	2.5	e			45	15	30		45									3	
6	Breeding of vegetables, fruits and berry crops	144	4.0		t		64	32	32		80										4
	The total	**648**	**18**	**4**	**2**	**0**	**342**	**140**	**202**	**0**	**306**							**4**			**15**
	TOTAL	**2232**	**62**	**9**	**13**	**0**	**955**	**355**	**584**	**16**	**1277**			**4**	**4**	**5**	**13**	**4**		**3**	**28**
	Selective courses signs in "Selection and Genetics of cultures"																				
	2.1. Courses by the University selection																				
	2.1.1. Cycle of humanitarian and socio-economic training																				
1	Jurisprudence	90	2.5		t		32	16		16	58										2
	The total	**90**	**2,5**	**0**	**1**	**0**	**32**	**16**	**0**	**16**	**58**										**2**

	2.1.2. Cycle of mathematical and natural-scientific training																				
1	Inorganic chemistry	72	2.0	e			32	16	16		40			2							
2	Analytical chemistry	72	2.0		t		48		48		24				3						
3	Organic Chemistry	72	2.0	e			16		16		56				1						
4	Physical and Colloid Chemistry	72	2.0	e			32	16	16		40					2					
5	Latin language	72	2.0		t		32		32		40			2							
	The total	**360**	**10**	**3**	**2**	**0**	**160**	**32**	**128**	**0**	**200**			**4**	**4**	**2**					
	2.1.2. Cycle of professional and practical training																				
1	Agricultural virology	126	3.5		t		48	16	32		78						3				
2	Agricultural microbiology	126	3.5		t		48	16	32		78					3					
3	Biotechnology	126	3.5		t		40	16	24		86										5
4	Plant Growing in greenhouses	180	5.0	e			64	32	32		116						4				
5	Fundamentals of commodity of crop production	126	3.5		t		48	16	32		78						3				
6	Agricultural melioration	108	3.0		t		32	16	16		76										2
7	Special selection of agricultural cultures	72	2.0		t		39	13	26		33									3	
8	Industrial crops	180	5.0	e			80	40	40		100										10
9	Seed	72	2.0	e			60	15	45		12									4	
	The total	**1044**	**29**	**2**	**6**	**0**	**399**	**165**	**234**	**0**	**645**					**3**	**10**			**3**	**17**
	2.2. Courses by the student selection																				
	2.2.1. Cycle of mathematical and natural-scientific training																				
1	Biological plant protection	90	2.5		t		20	10	10		70								2		
	Military training	675	18.8		t		450				225										
	Cultural and educational activities	665	18.5		t		284				381										
	The total	**90**	**2.5**	**0**	**1**	**0**	**20**	**10**	**10**		**70**								**2**		**0**
	2.2.2. Cycle of professional and practical training																				
1	Special genetics field crops	180	5.0	e			60	30	30		120							4			

2	Special breeding and crop variaties scirence	288	8.0	e	t		107	46	61		181									5	4
3	Seed crops	180	5.0	e			105	45	60		75									7	
	The total	**648**	**18**	**3**	**0**	**0**	**272**	**121**	**151**	**0**	**376**							**4**		**12**	**4**
	TOTAL	**2232**	**62**	**8**	**10**	**0**	**883**	**344**	**523**	**16**	**1349**			**4**	**4**	**5**	**10**	**4**		**15**	**23**
	Practical training	**1242**	**34.5**																		
	Preparation and defense of baccalaureate work	**108**	**3.0**																		
	Number of coursework	**4**																			
	Number of tests	**31**																			
	Number of examinations	**36**																			
	Total by the direction of preparation	**8640**	**240**				**3371**	**1326**	**1933**	**112**	**3199**	**12**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**30**

III. STRUCTURE OF A TRAINING PLAN

The disciplines	Hours	Credits	%
1. Normative academic disciplines	**4518**	**125.5**	**52.3**
1.1. Cycle of humanitarian and socio-economic training	864	24.0	10.0
1.2. Cycle of mathematical and natural-scientific training	900	25.0	10.4
1.3. Cycle of professional and practical training	2754	75.0	31.9
2. Selective Courses	**2232**	**62.0**	**25.8**
2.1. Courses by the University selection	1494	41.5	17.3
2.1.1. Cycle of humanitarian and socio-economic training	90	2.5	1.0
2.1.2. Cycle of mathematical and natural-scientific training	360	10.0	4.2
2.1.3. Cycle of professional and practical training	1044	29.0	12.1
2.2. Courses by the student selection	738	20.5	8.5
2.2.1. Cycle of mathematical and natural-scientific training	90	2.5	1.0
2.2.2. Cycle of professional and practical training	648	18.0	7.5
3. Other load	**1890**	**52.5**	**21.9**
Together for EQL	**8640**	**240**	**100**

IV. Summary the budget on time, weeks

Year of study	Theoretical study	Examination period	Practical training	Preparing baccalaureate work	State certification	Vacation	Total
1	32	4	8			**8**	**52**
2	32	4	8			**8**	**52**
3	25	4	15			**8**	**52**
4	29	4	3	3	2	**2**	**43**
Together for EQL	**118**	**16**	**34**	**3**	**2**	**26**	

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Number of weeks
Normative practice of "Agronomy"					
1	Teaching practice of botany	2	36	1.0	1.0
2	Teaching practice of tractors and cars	2	36	1.0	1.0
3	Teaching practice of soil science	4	36	1.0	1.0
4	Teaching practice of agricultural machinery	4	36	1.0	1.0
5	Teaching practice of fruit-growing	6	36	1.0	1.0
6	Teaching practice of farming	6	36	1.0	1.0
7	Teaching practice of agrochemicals	6	36	1.0	1.0
8	Teaching practice of vegetable growing	6	36	1.0	1.0
9	Teaching practice of plant growing	7	36	1.0	1.0
10	Industrial practice of Agronomy	6	486	13.5	11.0
The total			**810**	**22.5**	**20.0**
Selective practical training component on the basis of specialty " Agronomy"					
1	Training (agronomically-evaluation) practice	1.2. 3.4	324	9.0	9.0
2	Teaching practice of phytopathology	6	18	0.5	0.5
3	Teaching practice of entomology	6	18	0,5	0,5
4	Teaching practice of technology of storage and processing of crop production	7	36	1.0	1.0

5	Teaching practice of breeding and seed production of agricultural crops	8	18	0.5	0.5
6	Teaching practice of grassland and onion production	8	18	0.5	0.5
The total			**432**	**12.0**	**12.0**

Selective practical training component on the basis of specialty "Agrochemistry and Soil"					
1	Training (agronomically-evaluation) practice	1.2. 3.4	144	4.0	4.0
2	Teaching practice of geographers of soils	4	72	2.0	2.0
3	Teaching practice of geology with the basics of mineralogy	4	36	1.0	1.0
4	Teaching practice of cartography of soil	6	72	2.0	2.0
5	Teaching practice of the system of fertilizer application	7,8	108	3.0	3.0
The total			**432**	**12.0**	**12.0**
Selective practical training component on the basis of specialty "Horticulture and viticulture"					
1	Training (agronomically-evaluation) practice	1.2. 3.4	288	8.0	8.0
2	Teaching practice of nursery	6	36	1.0	1.0
3	Teaching practice of growing of vegetables in the open ground	7	36	1.0	1.0
4	Teaching practice of vegetable growing in greenhouses	8	72	2.0	2.0
The total			**432**	**12.0**	**12.0**
Selective practical training component on the basis of specialty "Selection and genetics of cultures"					
1	Training (agronomically-evaluation) practice	1.2. 3.4	288	8.0	8.0
2	Teaching practice of phytopathology	6	18	0.5	0.5
3	Teaching practice of entomology	6	18	0.5	0.5
4	Teaching practice of technology of storage and processing of crop production	7	18	0.5	0.5
5	Teaching practice of breeding and seed production of agricultural crops	7, 8	90	2.5	2.5
The total			**432**	**12.0**	**12.0**
Together			**1242**	**34.5**	**32**

VI. COURSE WORK AND PROJECTS

№	Subjects	Hours	Credits	Coursework	Course project
1	Soil Science with the bases of geology	18	0.5	1	
2	Agrochemicals	18	0.5	1	
3	Farming	18	0.5	1	
4	Plant Growing	18	0.5	1	

VII. STATE CERTIFICATION

№	Component certification	Hours	Credits	Number of weeks
1	State exam	36	1.0	1.0
2	Protection of baccalaureate work	108	3.0	3.0

"APPROVED"

Vice rector for academic affairs and cultural-educational work _____ **Ridey N.M**

Head teaching department _____ **Zazumko O.V.**

Director of the Institute plant, ecology and biotechnology _____ **Demydas G.I.**

"DEVELOPED"

Dean of the agrobiological faculty _____I.O.Antipov