NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE

Reviewed and approved by the
Scientific Council of NULESU
«____» _____ 20__ p.
(Transaction №_____)

APPROVED BY
Rector NULES of Ukraine
_____ D. Melnychuk
«____» _____ 20__ year

CURRICULA AND PROGRAM OF BACHELOR DEGREE

Educational qualification level	«Bachelor»
Field of knowledge	0801 – "Geodesy and Land Management"
Specialty	6.080101 – "Geodesy, Cartography and Land Management"
Mode of study	full time
Duration of training	4 years
Qualification of graduates	Bachelor in Geodesy, Cartography and Land Management

Implement preparation of bachelors

EDUCATIONAL AND RESEARCH INSTITUTE OF LAND RESOURCES AND JUDISPRUDENCE

FACULTY OF LAND MANAGEMENT

I. THE TRAINING PROCESS SCHEDULE

a) training of specialists educational qualification level «Bachelor» accession 2013 year
specialty _"Geodesy, Cartography and Land Management"

course	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																:	:	-	-	-																			:	:	O	O	O	-	-	-	-	O	O	O	O	-

Notation:

	-	theoretical training
:	-	examination session
-	-	vacations
X	-	work placements
O	-	educational practice
II		preparation of baccalaureate work
//	-	state certification

б) training of specialists educational qualification level «Bachelor for 2013-2014 the academic year
specialty _"Geodesy, Cartography and Land Management"

course	2013 рік																		2014 рік																																	
	September				30	October			28	November				December				30	January			27	February			24	Березень				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																:	:	-	-	-																			:	:	O	O	O	-	-	-	-	O	O	O	O	-
II																:	:	-	-	-																					:	:	O	-	-	-	-	O	O	O	O	-
III																:	:	-	-	-																:	:	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-
IV																:	:	-	-																	:	:	//	//													

Notation:

	-	theoretical training
:	-	examination session
-	-	vacations
X	-	work placements
O	-	educational practice
II		preparation of baccalaureate work
//	-	state certification

Dean __________________ Dorosh Olga

II. Curricula

№	The name of the course, practice	The total volume		Forms of knowledge control by semester			Classes at the audience				Independent work	Practical training		Distribution of weekly hours per semester and courses							
								including						I курс		II курс		III курс		IV курс	
														Semester							
														1 с.	2 с.	3 с.	4 с.	5 с.	6 с.	7 с.	8 с
														Number of weeks in a semester							
		hours	credits	exam	setoff	Coursework (draft)	Total	lectures	laboratory works	practical works		educational practice	work placements	15	18	15	20	15	15	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1. REGULATORY ACADEMIC DISCIPLINES																					
1.1. Cycle of humanitarian, social and economic training																					
1.	History of Ukraine	108	3,0	1			45	15		30	63			3							
2.	Professionaly-oriented Ukrainian language	108	3,0	2			36			36	72				2						
3.	History of Ukrainian Culture	72	2,0	1			30	15		15	42			2							
4.	Philosophy	108	3,0	3			60	30		30	48					4					
5.	Foreign Language	180	5,0	2	1		99			99	81			3	3						
6.	Physical education	270	7,5		1,2,3, 4		136			136	134			2	2	2	2				
Total for the cycle		**846**	**23,5**	**5**	**5**		**406**	**60**		**346**	**440**			**10**	**7**	**6**	**2**				
1.2. Cycle of natural science (fundamental) training																					
1	Higher Mathematics	594	16,5	1,3	2		192	96		96	402			4	4	4					
2	Physics	324	9,0	2	1		132	66	66		192			4	4						
3	Computer Science and Programming	252	7,0	3	1,2		164	68	96		52	36		3	3	4					
4	Fundamentals of Ecology	54	1,5		3		45	30	15		9					3					
5	Life Activities Safety	72	2,0		4		40	20		20	32						2				
6	Metrology and Standardization	54	1,5		6		30	15		15	24								2		
7	Geology and geomorphology	90	2,5		1		45	30	15		45			3							
8	Electronic surveying instruments	108	3,0		8		64	32	32		44										4
9	Mathematical Methods and Models	108	3,0	7			60	30	30		48									4	
10	Public health and Occupational Diseases	54	1,5	5			45	30	15		9							3			
Total for the cycle		**1710**	**47,5**	**6**	**9**		**817**	**417**	**269**	**131**	**857**	**36**		**14**	**11**	**11**	**2**	**3**	**2**	**4**	**4**
1.3. Cycle of professional and practical training																					
1	Topography	324	9,0	2	1		60	30	30		84	180		4	4						
2	Geodesy	360	10,0	4	3		192	68	124		24	144				4	3				
3	Photogrammetry and Remote Sensing	216	6,0	6	5		90	45	45		54	72						3	3		
4	Satellite Geodesy and spherical astronomy	108	3,0		6		45	15	30		63								3		
5	Higher Geodesy	162	4,5		5		60	30	30		102							4			
6	GIS and Databases	180	5,0	5			60	30	30		120							4			
7	Mathematical processing of geodetic measurements	126	3,5		4		40	20	20		86						2				
8	Investment Analysis	90	2,5		6		30	15	15		60								2		
9	State Land Cadastre	108	3,0		4		40	20	20		68						3				
10	Cartography	108	3,0	7			60	30	30		48									4	
11	Land Law	108	3,0	8	7		78	47	31		30									2	3
12	Financial and economic activities	90	2,5		7		30	15	15		60									2	
13	Organization and management of production	108	3,0		8		64	32	32		44										4
Total for the cycle		**2088**	**58**	**6**	**9**		**849**	**397**	**452**		**843**	**396**		**4**	**4**	**4**	**8**	**11**	**8**	**8**	**7**
2. ELECTIVE ACADEMIC DISCIPLINES																					

2.1. Disciplines chosen by the University																				
2.1.1. Cycle of natural science (fundamental) training																				
1	Land Reclamation	126	3,5		4		80	40	40		46						4			
2	Soil Science and the basics of Agrochemistry	252	7,0	2			126	72	54		90	36			7					
3	Agriculture	108	3,0	4			60	40	20		12	36					3			
4	Crop Science	108	3,0	4			40	20	20		68						2			
Total for the cycle		**594**	**16,5**	**3**	**1**		**306**	**172**	**134**		**216**	**72**			**7**		**9**			
2.1.2. Cycle of professional and practical training																				
1	Land Cadastre	487	13,5	6,7	5	7	120	45	75		259		108					3	5	
2	Land Management	630	17,5	6	5	6	135	75	60		387		108					4	5	
3	Geodetic activity in Land Management	180	5,0	6	5	5	60	30	30		48	72						4	2	
4	Fundamentals of Land Resources Management	144	4,0		8		64	32	32		80									4
5	Automated Cadastral System	126	3,5		7		60	15	45		66								4	
Total for the cycle		**1567**	**43,5**	**4**	**5**	**3**	**439**	**197**	**242**		**840**	**72**	**216**					**11**	**12**	**4**	**4**
2.2. Disciplines chosen by students																				
2.2.1. Cycle of humanitarian, social and economic training																				
1.	Psychology	72	2,0		4		40	20		20	32						2			
2.	Theory of Economics	108	3,0	5			60	30		30	48							4		
3.	Law	90	2,5		6		30	15		15	60								2	
4.	Sociology	90	2,5		6		30	15		15	60								2	
5.	Politology	90	2,5		7		30	15		16	60									2
Total for the cycle		**450**	**12,5**	**1**	**4**		**190**	**95**		**96**	**260**						**2**	**4**	**4**	**2**
2.2.2. Cycle of natural science (fundamental) training*																				
1	Agroforestry amelioration	108	3,0		8		32	16		16	76									2
2	Inventory of settlements	108	3,0	8			48	16	32		60									3
3	Infrastructure Engineering of Territories	108	3,0	4			60	40	20		48						3			
4	Digital maps and plans	108	3,0		6		60	15	45		48								4	
Total for the cycle		**432**	**12**	**2**	**2**		**200**	**87**	**97**	**16**	**232**						**3**		**4**	**5**
2.2.3. Cycle of professional and practical training																				
1	Planning residential areas	161	4,5	8	7	8	80	32	48		81								3	2
2	Technologies of land productivity restoration	72	2,0		7		30	15	15		42								2	
3	Remote monitoring of Land Resources	108	3,0		8		64	16	48		44									4
4	Topographic and land surveying drawings	108	3,0		1,2		48		48		60			2	1					
5	History of land relations and land management	72	2,0		3		45	30		15	27					3				
6	Rational use and conservation of land	144	4,0		4		80	40	40		64						4			
7	Design of local roads	108	3,0		3	3	45	15	30		63					3				
8	Statistical methods in land management	108	3,0		3		45	15		30	63					3				
Total for the cycle		**881**	**24,5**	**1**	**9**	**2**	**437**	**163**	**229**	**45**	**444**			**2**	**1**	**9**	**4**			**5**	**6**
Elective part, total		**3924**	**109**	**8**	**21**	**5**	**1572**	**714**	**702**	**157**	**1992**	**144**	**216**								
Practical training		**792**	**22**																	
Preparing baccalaureate work		**72**	**2,0**																	
Number of coursework (projects)		**5**																		
Number of setoff		**41**																		
Number of exam		**28**																		
Military training		675	29,0				450													
Culturology		216	6,0				72	72												
TOTAL, ACCORDING TO THE FIELD OF STUDY		**8640**	**240**	**28**	**41**	**5**	**3644**	**1588**	**1423**	**634**	**4132**	**576**	**216**	**30**	**30**	**30**	**30**	**30**	**30**	**30**	**30**

III. Structure of the curriculum

The name of the course, practice	hour	credits	%
1. 1. REGULATORY ACADEMIC DISCIPLINES	**4644**	**129**	**54**
1.1. Cycle of humanitarian, social and economic training	846	23,5	9,8
1.2. Cycle of natural science (fundamental) training	1710	47,5	19,8
1.3. Cycle of professional and practical training	2088	58	24,4
2. ELECTIVE ACADEMIC DISCIPLINES	**3924**	**109**	**45,2**
2.1. Disciplines chosen by the University	2161	60	25
2.1.1.Cycle of natural science (fundamental) training	594	16,5	6,8
2.1.2. Cycle of professional and practical training	1567	43,5	18,2
2.2. Disciplines chosen by students	1763	49	20,2
2.2.1. Cycle of humanitarian, social and economic training	450	12,5	5,3
2.2.2. Cycle of natural science (fundamental) training	432	12	5
2.2.3. Cycle of professional and practical training	881	24,5	9,9
3. Other load	**72**	**2**	**0,8**
Total, according to the field of study	**8640**	**240**	**100**

IV. Summary information about budget time, weeks

Year of study	Theoretical study	Exam session	Practical training	Preparing baccalaureate work	State certification	Holidays	Total
1	33	4	7	-		8	52
2	35	4	5	-		8	52
3	30	4	10	-		8	52
4	31	4	-	-	2	2	52
Total, according to the field of study	**129**	**16**	**22**	**-**		**26**	**208**

V. Ppractical training

№	Practical training	Semester	Hour	Credits	Number of weeks
1	Practice in the specialty	2	36	1,0	1
2	Computer Science and Programming	2	36	1,0	1
3	Topography	2	144	4,0	4
4	Soil Science and the basics of Agrochemistry	2	36	1,0	1
5	Geodesy	4	144	4,0	4
6	Agriculture	4	36	1,0	1
7	Photogrammetry and Remote Sensing	6	72	2,0	2
8	Geodetic activity in Land Management	6	72	2,0	2
9	**Work placements**	6	216	6,0	6

VI. Course works & projects

№	Number of coursework (projects)	Hour	Credits	Coursework	Projects
1	Design of local roads	36	1,0		+
2	Geodetic activity in Land Management	36	1,0		+
3	Land Cadastre	36	1,0		+
4	Land Management	36	1,0		+
5	Planning residential areas	36	1,0		+

VII. State attestation

№	Component of attestation	Hour	Credits	Number of weeks
1	**State exam**	**72**	**2,0**	**2**