Form № H- 3.01

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

CURRICULUM
for 2013/2014 academic years

Educational qualification level	"Master"
Branch of knowledge	0518 "Wood processing"
Specialty	8.05180101 "Woodwork Technologies"
Specialization	industrial
Master programme	"Modern woodworking technologies"
Specialization	research
Master programmes	"Scientific bases of resource-saving technologies of wood drying", "Scientific bases of resource-saving technologies of wood products»
Form of study	full-time
Study term	1 year 6 months
Qualification	Master of woodwork technology

Implement Master's programmes

ERI	Forestry and Park Gardening
Faculty	Forestry
Chair	Technology of woodwork

I. SCHEDULE OF EDUCATIONAL PROCESS

a) training specialists EQL “Master” of 2013 entry year
on specialty “Woodwork technologies”

Course	2013																		2014							
	September				30	October			28	November				December				30	January			27	February			24
	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
					5				2									4				1				1
	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
	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
I																										
																		–	–	:	:					

Course	2014																									
	March				31	April			28	May				June				30	July			28	August			
	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				3									5				2				
	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VII	12	19	26	VIII	9	16	23	30
	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																							X	X	X	X
					A									:	:	–	–	–	–	–	X	X	X	X	X	–

Course	2014																	
	September				29	October			27	November				December				29
	1	8	15	22	IX	6	13	20	X	3	10	17	24	1	8	15	22	XII
					4				1									3
	6	13	20	27	X	11	18	25	XI	8	15	22	29	6	13	20	27	I
	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
II											:	:	II	II	II	//		

b) training specialists EQL “Master” of 2012 entry year
on specialty “Woodwork technologies”

Course	2013																		2014							
	September				30	October			28	November				December				30	January			27	February			24
	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
					5				2									4				1				1
	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
	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
II											:	:	II	II	II	//										

Course	2014																									
	March				31	April			28	May				June				30	July			28	August			
	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				3									5				2				
	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VII	12	19	26	VIII	9	16	23	30
	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
II																										

Table legend:

	- theoretical study	X	- industrial practice
:	- exam session	II	- master's work writing
-	- vacation	//	- state exam and defending of master's work
A	- intermediate attestation		

II. PLAN OF EDUCATIONAL PROCESS

№	Name of discipline	Total number		Forms of knowledges control on semesters			Audience employments, hours				Self study	Practical training		Distribution of classroom hours per week by courses and semesters		
								including:						I course		II course
														1 sem.	2 sem.	3 sem.
														Number of weeks in semester		
		hours	credits	exams	tests	course papers (projects)	Total	lectures	laboratory research	practical		industrial practice	research practice	17	18	10
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. COMPULSORY DISCIPLINES																
1.1. Cycle of humanitarian and socio-economic training*																
1	Safety and Health at work (on industrial productions and educational & scientific institutions)	72	2,0	3			20	10		10	52					2
2	Pedagogics and teaching technique at high school	126	3,5		2		36	18		18	90				2	
3	Intellectual property	90	2,5		1		34	17		17	56			2		
4	Civil protection	126	3,5		2		36	18		18	90				2	
Total for the cycle		**414**	**11,5**	**1**	**3**	**0**	**126**	**63**	**0**	**63**	**288**	**0**	**0**	**2**	**4**	**2**
1.2. Cycle of professional and practical training*																
1	Research and science organization in woodworking	108	3,0	2			36	18		18	72				2	
2	Wood sawing theory and practice	198	5,5	1			68	34		34	130			4		
3	Thermal treatment of wood theory	198	5,5	2			72	36		36	126				4	
4	Wood gluing theory and technology	198	5,5	2			72	36		36	126				4	
5	Actual problems of mechanical woodworking	252	7,0	1		**36**	68	34		34	148			4		
Total for the cycle		**954**	**26,5**	**5**	**0**	**36**	**316**	**158**	**0**	**158**	**602**	**0**	**0**	**8**	**10**	**0**
2. OPTIONAL DISCIPLINES																
2.1. Disciplines chosen by the university																
2.1.1. Cycle of humanitarian and socio-economic training*																
1	Foreign language (professional orientation)	90	2,5	1			34			34	56			2		
2	Philosophy of science	90	2,5	1			34	17		17	56			2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total for the cycle		**180**	**5,0**	**1**	**3**	**0**	**68**	**17**		**51**	**112**			**4**	**0**	**0**
2.1.2. Cycle of professional and practical training*																
1	International forestry and forest resources	36	1,0		1		17	17			19			1		
2	Sustainable nature & society development strategy	36	1,0		1		17	17			19			1		
Total for the cycle		**72**	**2,0**	**0**	**2**	**0**	**34**	**34**	**0**	**0**	**38**	**0**	**0**	**2**	**0**	**0**
Production specialization																
Master's programme "Modern woodworking technologies"																
2.1. Disciplines chosen by the university																
2.1.1. Cycle of professional and practical training*																
1	Planning on woodworking industry enterprises	216	6,0	3		36	40	20	20		140					4
2	Modelling and optimization of technological processes	126	3,5	3			40	20	20		84					4
3	Modern methods of planning tooling of wood enterprises	270	7,5	2		36	72	36	36		162				4	
Total for the cycle		**612**	**17,0**	**3**		**72**	**152**	**76**	**76**		**386**	**0**	**0**	**0**	**4**	**8**
2.2. Disciplines chosen by the student																
2.2.1. Cycle of professional and practical training*																
1	Wood constructions manufacturing technology	108	3,0		1		34	17	17		74			2		
2	Special woodworking productions technology	54	1,5		3		20	10	10		34					2
3	Marketing of woodworking industry	54	1,5		3		20	10		10	34					2
4	Modern furniture production technologies	54	1,5		3		20	10	10		34					2
5	External economic activity on woodworking enterprises	54	1,5		3		20	10	10		34					2
Total for the cycle		**324**	**9,0**	**0**	**5**	**0**	**114**	**57**	**47**	**10**	**210**	**0**	**0**	**2**	**0**	**8**
Research specialization																
Master's programme "Scientific bases of resource-saving technologies of wood drying"																
2.1. Disciplines chosen by the university																
2.1.1. Cycle of professional and practical training*																
1	Scientific basis of wood drying	108	3,0		3		20	10	10		88					2
2	Wood constructions manufacturing technology	108	3,0		1		36	18	18		72			2		
3	Modern methods of planning tooling of wood enterprises	270	7,5	2		36	72	36	36		162				4	
4	Quality management of sawn timber drying	126	3,5	3			40	20	20		86					4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Total for the cycle		**612**	**17,0**	**2**	**2**	**36**	**168**	**84**	**84**	**0**	**408**	**0**	**0**	**2**	**4**	**6**
2.2. Disciplines chosen by the student																
2.2.1. Cycle of professional and practical training*																
1	Resource-saving wood drying technologies	162	4,5	3		36	40	20	20		86					4
2	Modern furniture production technologies	54	1,5		3		20	10	10		34					2
3	Modelling and optimization of technological processes	126	3,5	3			40	20	20		84					4
Total for the cycle		**324**	**9,0**	**1**	**3**	**96**	**70**	**50**	**20**	**0**	**188**	**0**	**0**	**0**	**0**	**10**
Master's programme "Scientific bases of resource-saving technologies of wood products"																
2.1. Disciplines chosen by the university																
2.1.1. Cycle of professional and practical training*																
1	Information technologies of design constructions and wood products manufacturing technologies	108	3,0	3			40	20	20		68					4
2	Modern methods of planning tooling of wood enterprises	234	6,5	2		36	72	36	36		126				4	
3	Wood constructions manufacturing technology	108	3,0		1		36	18	18		72			2		
4	Resource-saving technologies of wood products manufacture	162	4,5	3		36	40	20	20		86					4
Total for the cycle		**612**	**17,0**	**3**	**1**	**72**	**188**	**94**	**94**	**0**	**352**	**0**	**0**	**2**	**4**	**8**
2.2. Disciplines chosen by the student																
2.2.1. Cycle of professional and practical training*																
1	Methods of researches of quality wood products manufacture	90	2,5		3		20	10	10		70					**2**
2	Modern methods of joinery and wooden buildings planning	90	2,5		3		20	10	10		70					**2**
3	Modern methods of wood products enineering with using of traditional and nontraditional materials	72	2,0		3		20	10	10		52					**2**
4	Basic of engineering work in woodworking	72	2,00		3		20	10	10		52					**2**
Total for the cycle		**324**	**9,0**	**0**	**4**	**0**	**20**	**10**	**10**		**70**	**0**	**0**	**0**	**0**	**8**
TOTAL		**2556**	**71,0**											**18**	**18**	**18**
Practical training		**324**	**9,0**													
Writing and defending of master's work		**360**	**10,0**													
Amount of term papers (projects)						**3**										
Amount of tests					**12**											
Amount of examinations				**11**												
Total for EQL "Master"		**3240**	**90,00**	**11**	**12**	**108**	**810**	**405**	**123**	**282**	**1638**	**324**	**0**	**18**	**18**	**18**

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

III. STRUCTURE OF CURRICULUM

Educational disciplines	Hours	Credits	%
1. Compulsory disciplines	1368	38,0	42
1.1. Cycle of humanitarian and socio-economic training*	414	11,5	13
1.2. Cycle of professional and practical training*	954	26,5	29
2. Optional disciplines	1188	33,0	37
2.1. Disciplines chosen by the university	864	24,0	27
2.1.1. Cycle of humanitarian and socio-economic training*	180	5,0	6
2.1.2. Cycle of professional and practical training*	684	19,0	21
2.2. Disciplines chosen by the student	324	9,0	10
2.2.1. Cycle of professional and practical training*	324	9,0	10
3. Other types of loading	684	19,0	21
Total for EQL	**3240**	**90,00**	**100**

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

IV. SUMMARY TIME BUDGET, WEEKS

Course	Theoretical study	Exams	Practical training	Writing master's work	State attestation	Vacation	Total
1	35	4	9			8	56
2	10	2		3	1		16
Total for EQL	**45**	**6**	**9**	**3**	**1**	**8**	**72**

V. PRACTICAL TRAINING

№	Type of practice	Semester	Hours	Credits	Amount of weeks
1	Industrial practice	1, 2	324	9	9

VI. COURSE PAPERS AND PROJECTS

№	Discipline	Hours	Credits	Term paper	Course project
1	Actual problems of mechanical woodworking	36	1		CP
2	Modern methods of planning tooling of wood enterprises	36	1		CP
3	Planning on enterprises of woodworking industry	36	1		CP

VII. STATE ATTESTATION

№	Component of attestation	Hours	Credits	Amount of weeks
1	Writing and defending of master's work	360	10,0	4