

Cabinet of Ministers of Ukraine

National University of Life and Environmental Sciences of Ukraine

CURRICULUM

of training specialists 2013 year of entry

Education qualification level	«Bachelor»
area of expertise	<u>0507 - Electrical and electro mechanics</u>
in the direction	<u>6.050701 - ELECTRIC MACHINERY AND ELECTRIC TECHNOLOGIES</u>
Form of education	High
Apprenticeship	<u>3 years 10 mounts</u>
Qualifying graduates	<u>Technical specialist - Electrician</u>

Implement training of bachelors

INSTITUTE OF	<u>ENERGETICS AND AUTOMATION</u>
FACULTY OF	<u>ENERGETICS AND AUTOMATION</u>

II. PLAN OF EDUCATIONAL PROCESS																									
№	Course title	The total amount		Forms of knowledge control according to semesters			Classroom hours				self study	The practical training		Distribution of weekly hour by the courses and semesters											
		acad hours	credits	exam	test	course project	whole	lectures	laboratory classes	practical classes		educational practice	manufacturing practice	1 nd course	2 nd course	3 nd course	4 nd course								
														semesters											
														1	2	3	4	5	6	7	8				
														Quantity week in a semester											
														16	16	16	16	15	10	15	8				
15	16	17	18	19	20	21	22																		
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	History of Ukraine	108	3,0	1			38	19		19	70,0				2										
2	Philosophy	108	3,0	2			38	19		19	70,0				2										
3	Ukrainian language (for professional purposes)	108	3,0	1			32			32	76,0			2											
4	Foreign Language	216	6,0	4	1;2;3		140			140	76,0			2	2	2	2								
5	The history of Ukrainian culture	72	2,0	1			48	32		16	24,0			3											
6	Politics	72	2,0		6		28	14		14	44,0										2				
7	Physical Education **	360	10,0		1-4		140			140	220,0			2	2	2	2								
The total number of cycles		684,0	19,0			0,0	324,0	84,0	0,0	240,0	360,0			9	8	4	4	0	0	0	2				
1.2. Cycle of natural science (basic) training																									
1	High Mathematics	684	19,0	1,2,4	3		423	212	38	173	261,0			5	6	6	6								

	in the field of																				
The total number of cycles		2196	61				1184	596	399	189	952	90	150	0	0	8	14	13	12	8	15
1.3.2 Cycle of practical training																					
1	Educational Practice	360	10,0																		
2	Industrial practice	180	5,0																		
3	Diploma planning	324	9,0																		
The total number of cycles		864	24,0																		
2.SELECTIVE COURSES																					
2.1. University Choice Disciplines																					
1	Diagnostics, and electrical repair	288	8,0	7	6		140	70	19	51	148,0								3	4	
2	Fundamentals of Scientific Research	108	3,0		8		36	28		28	72,0										4
3	Basics of installing power lines	180	5,0		5		48	16	16	16	82,0		50					3			
4	Thermotechnics	144	4,0		3		64	32	16	16	80,0				4						
5	Chemistry	108	3,0	1			48	32	16		60,0			3							
6	Theory of automatic control	216	6,0	6	5		140	70	70		76,0							4	4		
7	Technology of construction materials	108	3,0		3		32	16	16		76,0				2						
8	Principles of Management	108	3,0		8		28	14		14	80,0										2
9	Labour protection	144	4,0	7			48	16	16	16	96,0										3
10	Industrial Electronics	144	4,0		5		64	32	16	16	80,0							4			
11	Introduction to the profession	108	3,0		1		32	32			16,0	60		2							
12	Mathematical problems of energy	252	7,0	6	5	15	140	70	35	35	97,0							4	4		

III. STRUCTURE of the CURRICULUM

Cycle of disciplines	Hours	Credits	%
1. Statutory subjects			
1.1. Cycle of the humanities and socio-economic disciplines	684	19,0	8
1.2. Cycle disciplines of natural science (basic) training	1728	48,0	20
1.3. Cycle disciplines of professional and practical training	3060	85,0	35
2. Selective Courses			
2.1. Elective Courses University	2880	80,0	33
2.2. Disciplines chosen by the student	288	8,0	3
In all for GLR	8640	240	100

VII. STATE CERTIFICATION

№	Component of certification	Hours	Credits	Weeks
1	State exam			
2	Protection baccalaureate work	324	9	5

IV. SUMMARY TIME BUDGET(WEEKS)

Courses	Theoretical study	Examination period	Practical training	Preparing baccalaureate work	State certification	Holidays
1	34	4	5			8
2	34	4	5			8
3	34	4	5			8
4	29	4		4	1	2
In all for	131	16	15	4	1	26

V. PRACTICAL TRAINING

№	Kind of practise	Semester	Hours	Credits	Weeks
1	Educational introductory	2	36	1	1
2	Training electromechanical	2	144	4	4
3	Training electroassembly	4	180	5	5
4	Production operating 1st module	6	180	5	5

VI. COURSEWORK AND PROJECTS

№	Subjects	Hours	Credits	Coursework	Course project
1	Transient processes in power industry	15	0,5	CW	
2	Mathematical problems power engineering	15	0,5	CW	
3	Electrical Systems and Networks	30	1		CP
4	Electrical stations and substations	30	1		CP

