



### V. EDUCATION PROCESS PLAN

Code in accordance with the EPP	Name of academic discipline	Semester distribution			Number of ECTS credits	Number of hours						Distribution of classroom hours per a week and ECTS credits per a semester												Department					
		Exams	Tests	Individual tasks		Total amount	Classroom			Independent work	I course		II course		III course		IV course												
							Total	including			1	2	3	4	5	6	7	8											
		Lectures	Laboratory works	Practical studies		Number of weeks in the semester																							
		20		20		20		20		20		20		20		20													
		Classroom hours	ECTS credits	Classroom hours		ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits									
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	
<b>1</b>	<b>Obligatory educational components</b>				<b>132,0</b>	<b>3960,0</b>	<b>1744,0</b>	<b>688,0</b>	<b>192,0</b>	<b>864,0</b>	<b>2216,0</b>	<b>22,0</b>	<b>27,0</b>	<b>20,0</b>	<b>24,0</b>	<b>22,0</b>	<b>26,0</b>	<b>21,0</b>	<b>24,0</b>	<b>12,0</b>	<b>15,0</b>	<b>9,0</b>	<b>9,0</b>	<b>4,0</b>	<b>5,0</b>	<b>2,0</b>	<b>2,0</b>		
<b>1.1</b>	<b>General training</b>				79,0	2370,0	1068,0	320,0	80,0	668,0	1302,0	19,0	23,0	17,0	20,0	13,0	15,0	9,0	10,0	4,0	5,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	
GT 1	History and Culture of Ukraine	1		R	4,0	120,0	48,0	16,0		32,0	72,0	3,0	4,0																310
GT 2	Philosophy	4		R	3,0	90,0	32,0	16,0		16,0	58,0							2,0	3,0										307
GT 3	Jurisprudence		3	R	3,0	90,0	32,0	16,0		16,0	58,0					2,0	3,0												306
GT 4	History of Science and Technology		5	R	3,0	90,0	32,0	16,0		16,0	58,0								2,0	3,0									310
GT 5	English Language for professional purposes		3,4,5,6, 7,8	R	12,0	360,0	172,0			172,0	188,0					2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	275
GT 6	Language for Professional Training	2	1	R	7,0	210,0	96,0			96,0	114,0	2,0	2,0	4,0	5,0														275
GT 7	Ukrainian as a Foreign Language	4	1,2,3	R	8,0	240,0	128,0			128,0	112,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0										273
GT 8	Ecology		2	R	3,0	90,0	32,0	16,0	16,0		58,0				2,0	3,0													144
GT 9	Chemistry		1	C	4,0	120,0	48,0	32,0	16,0		72,0	3,0	4,0																192
GT 10	Higher Mathematics p.1	1		C	6,0	180,0	80,0	48,0		32,0	100,0	5,0	6,0																170
GT 10	Higher Mathematics p.2	2		C	6,0	180,0	80,0	32,0		48,0	100,0			5,0	6,0														170
GT 10	Higher Mathematics p.3	3		C	4,0	120,0	48,0	16,0		32,0	72,0					3,0	4,0												170
GT 10	Higher Mathematics p.4	4		C	3,0	90,0	48,0	16,0		32,0	42,0							3,0	3,0										170
GT 11	Physics p.1	1		C	5,0	150,0	64,0	32,0	16,0	16,0	86,0	4,0	5,0																168
GT 11	Physics p.2	2		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0			4,0	4,0														168
GT 11	Physics p.3	3		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0					4,0	4,0												168
<b>1.2</b>	<b>Professional training</b>				<b>53,0</b>	<b>1590,0</b>	<b>676,0</b>	<b>368,0</b>	<b>112,0</b>	<b>196,0</b>	<b>914,0</b>	<b>3,0</b>	<b>4,0</b>	<b>3,0</b>	<b>4,0</b>	<b>9,0</b>	<b>11,0</b>	<b>12,0</b>	<b>14,0</b>	<b>8,0</b>	<b>10,0</b>	<b>7,0</b>	<b>7,0</b>	<b>2,0</b>	<b>3,0</b>	<b>0,0</b>	<b>0,0</b>		
PT 1	Descriptive Geometry, Engineering and Computer Graphics	1		CG	4,0	120,0	48,0	16,0		32,0	72,0	3,0	4,0																163
PT 2	Fundamentals of Power Electrical Engineering	2		C	4,0	120,0	48,0	32,0		16,0	72,0			3,0	4,0														125
PT 3	Fundamentals of Metrology and Electrical Measurements	3		C	5,0	150,0	64,0	32,0	32,0		86,0					4,0	5,0												173
PT 4	Theoretical Basics of Electrical Engineering p.1	3		C	6,0	180,0	80,0	48,0	16,0	16,0	100,0					5,0	6,0												137
PT 5	Theoretical Basics of Electrical Engineering p.2	4		C	5,0	150,0	80,0	32,0	16,0	32,0	70,0							5,0	5,0										137
PT 6	Fundamentals of Electronics	4		C	5,0	150,0	64,0	48,0	16,0	0,0	86,0							4,0	5,0										128
PT 7	Technical Mechanics		4	CG	4,0	120,0	48,0	32,0		16,0	72,0							3,0	4,0										148
PT 8	Electrical Machines	5		C	6,0	180,0	80,0	48,0	16,0	16,0	100,0									5,0	6,0								126
PT 9	Electrical Apparatus	5		C	4,0	120,0	48,0	16,0	16,0	16,0	72,0									3,0	4,0								127
PT 10	Fundamentals of Electrical Drive	6		C	4,0	120,0	48,0	24,0		24,0	72,0											4,0	4,0						129
PT 11	Fundamentals of Occupational Safety and Health	6		R	3,0	90,0	36,0	24,0		12,0	54,0										3,0	3,0							144
PT 12	Enterprise Economics		7	C	3,0	90,0	32,0	16,0		16,0	58,0														2,0	3,0			202
<b>2</b>	<b>Practical Preparation</b>				<b>12,0</b>	<b>360,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>360,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>6,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>6,0</b>		
PP1	Practical Training*		6		6,0	180,0	0,0				180,0													6,0					120

	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	
PP2	Pre-graduation Practice*		8		6,0	180,0	0,0				180,0																6,0	120	
3	Attestation*				6,0	180,0	0,0				180,0																6,0	120	
4	Optional educational components				90,0	2700,0	1120,0	430,0	194,0	224,0	1580,0	3,0	3,0	5,0	6,0	3,0	4,0	5,0	6,0	12,0	15,0	14,0	15,0	19,0	25,0	20,0	16,0		
4.1	Profile training				30,0	900,0	392,0	190,0	102,0	100,0	508,0	3,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	5,0	6,0	0,0	0,0	4,0	5,0	20,0	16,0	
4.1.1	Profiled discipline package 01 "Electrical Machines"				30,0	900,0	392,0	190,0	102,0	100,0	508,0	3,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	5,0	6,0	0,0	0,0	4,0	5,0	20,0	16,0	
OP1.1	Introduction to Speciality. Introductory Practice		1	C	3,0	90,0	48,0	16,0		32,0	42,0	3,0	3,0																126
OP1.2	Theory of Electromagnetic Fields and Processes in Electrical Engineering		5	CW	6,0	180,0	80,0	32,0	32,0	16,0	100,0									5,0	6,0								126
OP1.3	Asynchronous Machines Designing		7	CP	5,0	150,0	64,0	32,0		32,0	86,0													4,0	5,0			126	
OP1.4	Exploitation and Repair of Electrical Machines		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	126	
OP1.5	Production of Electrical Machines		8	C	4,0	120,0	50,0	30,0	20,0		70,0															5,0	4,0	126	
OP1.6	Testing and Diagnostics of Electrical Machines		8	C	4,0	120,0	50,0	30,0	20,0		70,0															5,0	4,0	126	
OP1.7	Electrical Machines Design in CAD			8	C	4,0	120,0	50,0	20,0	30,0	70,0															5,0	4,0	126	
4.1.2	Profiled discipline package 02 "Electrical Apparatus"				30,0	900,0	392,0	200,0	52,0	140,0	508,0	3,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	5,0	6,0	0,0	0,0	4,0	5,0	20,0	16,0	
OP2.1	Introduction to Speciality. Introductory Practice		1	C	3,0	90,0	48,0	16,0		32,0	42,0	3,0	3,0																127
OP2.2	Mechanical Engineering Technology		5	C	6,0	180,0	80,0	32,0	16,0	32,0	100,0									5,0	6,0								127
OP2.3	Low Voltage Electromechanical		7	C	5,0	150,0	64,0	32,0	16,0	16,0	86,0													4,0	5,0			127	
OP2.4	High Voltage Electromechanical Apparatus and Assemblies			8	C	4,0	120,0	50,0	30,0		20,0	70,0														5,0	4,0	127	
OP2.5	Semiconductor Switching Units and Automatics Elements		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	127	
OP2.6	Microprocessor Devices		8	C	4,0	120,0	50,0	30,0	10,0	10,0	70,0															5,0	4,0	127	
OP2.7	Electromagnetic Apparatus and Induction-Dynamical Systems		8	C	4,0	120,0	50,0	30,0	10,0	10,0	70,0															5,0	4,0	127	
4.1.3	Profiled discipline package 03 "Household Appliances"				30,0	900,0	392,0	200,0	52,0	140,0	508,0	3,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	5,0	6,0	0,0	0,0	4,0	5,0	20,0	16,0	
OP3.1	Introduction to Speciality. Introductory Practice		1	C	3,0	90,0	48,0	16,0		32,0	42,0	3,0	3,0																127
OP3.2	Mechanical Engineering Technology		5	C	6,0	180,0	80,0	32,0	16,0	32,0	100,0									5,0	6,0								127
OP3.3	Electromechanical Apparatus and Distribution Devices for Household Use		7	C	5,0	150,0	64,0	32,0	16,0	16,0	86,0													4,0	5,0			127	
OP3.4	Household Appliances		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	127	
OP3.5	Automatic Elements in Household Appliances		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	127	
OP3.6	Microprocessor Devices		8	C	4,0	120,0	50,0	30,0	10,0	10,0	70,0															5,0	4,0	127	
OP3.7	Electromagnetic Apparatus and Induction-Dynamical Systems		8	C	4,0	120,0	50,0	30,0	10,0	10,0	70,0															5,0	4,0	127	
4.1.4	Profiled discipline package 04 "Electric transport"				30,0	900,0	392,0	200,0	16,0	176,0	508,0	3,0	3,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	5,0	6,0	0,0	0,0	4,0	5,0	20,0	16,0	
OP4.1	Introduction to Speciality. Introductory Practice		1	C	3,0	90,0	48,0	16,0		32,0	42,0	3,0	3,0																125
OP4.2	Diagnostics and Measurements on Railway Transport		5	C	6,0	180,0	80,0	32,0	16,0	32,0	100,0									5,0	6,0								125
OP4.3	Rolling Stock Traction Drive (Electrical Part)		7	C	5,0	150,0	64,0	32,0		32,0	86,0													4,0	5,0			125	
OP4.4	Production Technology and Rolling Stock Repair		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	125	
OP4.5	Control Systems of Rolling Stock of Railway		8	C	4,0	120,0	50,0	30,0		20,0	70,0															5,0	4,0	125	
OP4.6	Rolling Stock Auxiliary Systems			8	R	4,0	120,0	50,0	30,0		70,0															5,0	4,0	125	
OP4.7	Rolling Stock Operation and Maintenance		8		R	4,0	120,0	50,0	30,0		70,0															5,0	4,0	125	
4.2	Optional student disciplines of the profile preparation according to the list				48,0	1440,0	596,0	240,0	92,0	124,0	844,0			5,0	6,0	3,0	4,0	5,0	6,0	4,0	5,0	11,0	11,0	12,0	16,0				

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
<b>4.3</b>	<b>Optional student disciplines from the general university catalog of disciplines</b>				<b>12,0</b>	<b>360,0</b>	<b>132,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>228,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>3,0</b>	<b>4,0</b>	<b>3,0</b>	<b>4,0</b>	<b>3,0</b>	<b>4,0</b>	<b>0,0</b>	<b>0,0</b>	
OPG1	<b>Discipline 1</b>		5		4,0	120,0	48,0				72,0									3,0	4,0							
OPG2	<b>Discipline 2</b>		6		4,0	120,0	36,0				84,0											3,0	4,0					
OPG3	<b>Discipline 3</b>		7		4,0	120,0	48,0				72,0													3,0	4,0			
	<b>Total for education period</b>				<b>240,0</b>	<b>7200,0</b>	<b>2864,0</b>				<b>4336,0</b>	<b>25,0</b>	<b>30,0</b>	<b>25,0</b>	<b>30,0</b>	<b>25,0</b>	<b>30,0</b>	<b>26,0</b>	<b>30,0</b>	<b>24,0</b>	<b>30,0</b>	<b>23,0</b>	<b>30,0</b>	<b>23,0</b>	<b>30,0</b>	<b>22,0</b>	<b>30,0</b>	
	<b>Hours per week</b>											25,0	30,0	25,0	30,0	25,0	30,0	26,0	30,0	24,0	30,0	23,0	30,0	23,0	30,0	22,0	30,0	
	<b>Number of exams</b>											5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	3	
	<b>Number of tests</b>											2	2	3	3	3	3	3	3	3	3	3	3	3	3	2		
	<b>Number of course projects (works)</b>													1	1	1	1	1	1	1	1	1	1	1	1			
	<b>Numbers of disciplines per semester</b>											8	6	7	7	6	4	4	4	4	4	4	4	4	4	5		

Individual tasks	
C	Calculated task
CG	Calculated and graphic task
R	Report
CP	Course project
CW	Course work

Approved by the Academic Council of NTU "KhPI"  
**PROTOCOL №5 from June 02, 2023**

**Vice-rector of Scientific-and-Pedagogical Work**

**Gennadiy KHRYPUNOV**

**Head of the educational program**

**Olena YURIEVA**

**Head of the Institute of Education and Science  
in Power Engineering, Electronics and  
Electromechanics**

**Roman TOMASHEVSKYI**

**Head of the Department of Electrical  
Machines**

**Volodymyr MILYKH**

**Head of the Department of Electrical Apparatus**

**Yevhen BAIDA**

**Head of the Department of Electrical  
Transport and Locomotive Engineering**

**Borys LIUBARSKYI**

\* Practices and attestations are carried out by graduating departments



OPT29	<b>Mathematical Simulation of Electrical Machines</b>	7		C	4,0	120,0	64,0	32,0	32,0		56,0											4,0	4,0			<b>126</b>	E-223i.e	
OPT30	<b>Information Technologies</b>	7		C	4,0	120,0	48,0	16,0	32,0		72,0												3,0	4,0			<b>127</b>	E-223i.e
OPT31	<b>Power Supply of Industrial Enterprises and Civil Buildings</b>	7		C	4,0	120,0	48,0	32,0		16,0	72,0												3,0	4,0			<b>127</b>	E-223i.e
OPT32	<b>Simulation of Electromechanical Systems</b>	7		C	4,0	120,0	64,0	32,0		32,0	56,0												4,0	4,0			<b>127</b>	E-223i.e
OPT33	<b>Control Systems of Rolling Stock Traction Drive</b>	7		C	4,0	120,0	64,0	32,0		32,0	56,0												4,0	4,0			<b>125</b>	E-223i.e
OPT34	<b>Mechanical Part of Rolling Stock</b>	7		CG	4,0	120,0	48,0	32,0		16,0	72,0												3,0	4,0			<b>125</b>	E-223i.e
OPT35	<b>Traction Substations and Networks</b>	7		C	4,0	120,0	48,0	16,0	16,0	16,0	72,0												3,0	4,0			<b>125</b>	E-223i.e

## CONTENT of CURRICULUM

for the training of the first (bachelor) level:  
by specialty

141

Electrical Power  
Engineering, Electrical  
Engineering and  
Electromechanics

Number in order	Discipline title	Total amount				Department code
		ECTS credits	Hours	Semesters		
				Exam	Test	
1	2	3	4	5	6	7
<b>1</b>	<b>Obligatory educational components</b>	<b>132,0</b>	<b>3960,0</b>			<b>55,00%</b>
<b>1.1</b>	<b>General training</b>	<b>79,0</b>	<b>2370,0</b>			<b>60%</b>
GT 1	History and Culture of Ukraine	4,0	120,0	1		310
GT 2	Philosophy	3,0	90,0	4		307
GT 3	Jurisprudence	3,0	90,0		3	306
GT 4	History of Science and Technology	3,0	90,0		5	310
GT 5	English Language for professional purposes	12,0	360,0		3,4,5,6, 7,8	275
GT 6	Language for Professional Training	7,0	210,0	2	1	275
GT 7	Ukrainian as a Foreign Language	8,0	240,0	4	1,2,3	273
GT 8	Ecology	3,0	90,0		2	144
GT 9	Chemistry	4,0	120,0		1	192
GT 10	Higher Mathematics p.1	6,0	180,0	1		170
GT 10	Higher Mathematics p.2	6,0	180,0	2		170
GT 10	Higher Mathematics p.3	4,0	120,0	3		170
GT 10	Higher Mathematics p.4	3,0	90,0	4		170
GT 11	Physics p.1	5,0	150,0	1		168
GT 11	Physics p.2	4,0	120,0	2		168
GT 11	Physics p.3	4,0	120,0	3		168
<b>1.2</b>	<b>Professional training</b>	<b>53,0</b>	<b>1590,0</b>			<b>40%</b>
PT 1	Descriptive Geometry, Engineering and Computer Graphics	4,0	120,0	1		163
PT 2	Fundamentals of Power Electrical Engineering	4,0	120,0	2		125
PT 3	Fundamentals of Metrology and Electrical Measurements	5,0	150,0	3		173
PT 4	Theoretical Basics of Electrical Engineering p.1	6,0	180,0	3		137
PT 5	Theoretical Basics of Electrical Engineering p.2	5,0	150,0	4		137
PT 6	Fundamentals of Electronics	5,0	150,0	4		128
PT 7	Technical Mechanics	4,0	120,0		4	148
PT 8	Electrical Machines	6,0	180,0	5		126
PT 9	Electrical Apparatus	4,0	120,0	5		127
PT 10	Fundamentals of Electrical Drive	4,0	120,0	6		129
PT 11	Fundamentals of Occupational Safety and Health	3,0	90,0	6		144
PT 12	Enterprise Economics	3,0	90,0	0	7	202
<b>2</b>	<b>Practical Preparation</b>	<b>12,0</b>	<b>360,0</b>			<b>5,00%</b>
PP1	Practical Training*	6,0	180,0		6	120
PP2	Pre-graduation Practice*	6,0	180,0		8	120
<b>3</b>	<b>Attestation*</b>	<b>6,0</b>	<b>180,0</b>			<b>2,50%</b>
<b>4</b>	<b>Optional educational components</b>	<b>90,0</b>	<b>2700,0</b>			<b>37,50%</b>
<b>4.1</b>	<b>Profile training</b>	<b>30,0</b>	<b>900,0</b>			<b>33%</b>
<b>4.1.1</b>	<b>Profiled discipline package 01 "Electrical Machines"</b>	<b>30,0</b>	<b>900,0</b>			
OP1.1	Introduction to Speciality. Introductory Practice	3,0	90,0	1		126
OP1.2	Theory of Electromagnetic Fields and Processes in Electrical Engineering	6,0	180,0	5		126
OP1.3	Asynchronous Machines Designing	5,0	150,0	7		126
OP1.4	Exploitation and Repair of Electrical Machines	4,0	120,0	8		126
OP1.5	Production of Electrical Machines	4,0	120,0	8		126
OP1.6	Testing and Diagnostics of Electrical Machines	4,0	120,0	8		126
OP1.7	Electrical Machines Design in CAD	4,0	120,0	0	8	126
<b>4.1.2</b>	<b>Profiled discipline package 02 "Electrical Apparatus"</b>	<b>30,0</b>	<b>900,0</b>			
OP2.1	Introduction to Speciality. Introductory Practice	3,0	90,0	1		127
OP2.2	Mechanical Engineering Technology	6,0	180,0	5		127
OP2.3	Low Voltage Electromechanical Apparatus	5,0	150,0	7		127
OP2.4	High Voltage Electromechanical Apparatus and Assemblies	4,0	120,0		8	127
OP2.5	Semiconductor Switching Units and Automatics Elements	4,0	120,0	8		127
OP2.6	Microprocessor Devices	4,0	120,0	8		127
OP2.7	Electromagnetic Apparatus and Induction-Dynamical Systems	4,0	120,0	8		127
<b>4.1.3</b>	<b>Profiled discipline package 03 "Household Appliances"</b>	<b>30,0</b>	<b>900,0</b>			
OP3.1	Introduction to Speciality. Introductory Practice	3,0	90,0	1		127
OP3.2	Mechanical Engineering Technology	6,0	180,0	5		127
OP3.3	Electromechanical Apparatus and Distribution Devices for Household Use	5,0	150,0	7		127
OP3.4	Household Appliances	4,0	120,0	8		127
OP3.5	Automatic Elements in Household Appliances	4,0	120,0	8		127
OP3.6	Microprocessor Devices	4,0	120,0	8		127
OP3.7	Electromagnetic Apparatus and Induction-Dynamical Systems	4,0	120,0	8		127
<b>4.1.4</b>	<b>Profiled discipline package 04 "Electric transport"</b>	<b>30,0</b>	<b>900,0</b>			
OP4.1	Introduction to Speciality. Introductory Practice	3,0	90,0	1		125
OP4.2	Diagnostics and Measurements on Railway Transport	6,0	180,0	5		125
OP4.3	Rolling Stock Traction Drive (Electrical Part)	5,0	150,0	7		125
OP4.4	Production Technology and Rolling Stock Repair	4,0	120,0	8		125
OP4.5	Control Systems of Rolling Stock of Railway	4,0	120,0	8		125
OP4.6	Rolling Stock Auxiliary Systems	4,0	120,0		8	125
OP4.7	Rolling Stock Operation and Maintenance	4,0	120,0	8		125
<b>4.2</b>	<b>Optional student disciplines of the profile preparation according to the list</b>	<b>48,0</b>	<b>1440,0</b>			<b>53%</b>
<b>4.3</b>	<b>Optional student disciplines from the general university catalog of disciplines</b>	<b>12,0</b>	<b>360,0</b>			<b>13%</b>
OPG1	Discipline 1	4,0	120,0		5	
OPG2	Discipline 2	4,0	120,0		6	
OPG3	Discipline 3	4,0	120,0		7	
<b>0</b>	<b>Total for education period</b>	<b>240,0</b>	<b>7200,0</b>			