## V. EDUCATION PROCESS PLAN

		Seme	ster distril	oution				Number	of hours			Distri	bution of	classroom	hours pe	er a week ester	and ECT	S credits	per a	
								Class	room				l co	urse			ll co	urse		
					lits								Seme	sters			Seme	sters		
					crec				including				1	2			3		4	
Š	Name of academic discipline				s.				ks	S	ž			Number	of weeks	s in the se	mester			
				sks	CT	it			vor	Idie	t we	2	0	2	0	1	6			
				ll ta	of E	our			2	stu	len		-		-		-			ent
		S		qua	ber	am		res	ato	cal	enc	IIS IO	ŝ	lls IO		lrs Irs		roo	Ś	E L
		æπ	ests	divi	a tur	otal	otal	ectu	loq	act	deb	ass hot	STS	ass hou	STS	ass hot	STS	ass hou	STS	epa
		Ê.	Ť.	- I	ž	Tc	To	Le L	<u></u>	<u> </u>	<u> </u>	ΰE	се U	ΰE	Шë	ΰE	Щ. С.e	ΰE	ШŠ	ŏ
1	2 General training	3	4	5	6	270.0	80.0	32.0	10	11 /8 0	12 190.0	13 5 0	14 9.0	15	16	1/	18	19	20	29
GT 1	Production Management and Marketing		0	P	3,0	90.0	32.0	16.0		16.0	58.0	2.0	3,0							202
	I abor and professional safety		9		3.0	90,0	32,0	16.0		16,0	58.0	2,0	3.0					-		121
GT 3	Intellectual Property		9	P	3.0	90,0	16.0	10,0		16,0	74.0	2,0	3.0							325
GT 4			3		0,0	50,0	10,0			10,0	74,0	1,0	0,0							525
2	Professional training				42.0	1260.0	160.0	96.0		64.0	1100.0	2.0	3.0	8.0	9.0		30.0			600.0
PT 1	Basics of Research and Development		9	С	3,0	90,0	32,0	16,0		16,0	58,0	2,0	3,0	-,-	-,-		,-			120
DT 0	Problems, Technologies, and Prospects of	10			10	400.0	40.0	22.0		40.0	70.0	,		2.0	4.0					400
PT2	Industry Development	10		R	4,0	120,0	48,0	32,0		16,0	72,0			3,0	4,0					120
PT 3	Reliability and Diagnostics	10		С	5,0	150,0	80,0	48,0		32,0	70,0			5,0	5,0					120
PT 10																				
	Practice*		3		15,0	450,0					450,0						15,0			120
	Attestation*		3		15,0	450,0					450,0						15,0			120
3	Optional disciplines				39,0	1170,0	576,0	320,0	80,0	176,0	594,0	18,0	18,0	18,0	21,0					
3.1	Optional disciplines of professional training according to blocks				39,0	1170,0	576,0	320,0	80,0	176,0	594,0	18,0	18,0	18,0	21,0					
3.1.1	Block of disciplines 01 "Electric Power Stations"				39,0	1170,0	576,0	320,0	80,0	176,0	594,0	18,0	18,0	18,0	21,0					
OB 1.1	Modeling of electric power equipment and	9		CW	5.0	150.0	80.0	32.0	32.0	16.0	70.0	5.0	5.0							130
00.4.0	processess	-		-	5.0	450.0	00.0	10.0	10.0	10.0	70.0	5.0	5.0					-		
OB 1.2	Power Plants Auxiliary Systems	9		C	5,0	150,0	80,0	48,0	16,0	16,0	70,0	5,0	5,0							130
OB 1.3	Following in Power Systems	9		R	4,0	120,0	64,0	32,0	16,0	16,0	56,0	4,0	4,0							130
OB 1.4	Power Plant Dispatching and SCADA	9		С	4,0	120,0	64,0	32,0	16,0	16,0	56,0	4,0	4,0							130
OB 1.5	Design of electric power facilities and schemes	10		СР	6,0	180,0	96,0	48,0		48,0	84,0			6,0	6,0					130
OB 1.6	Optimization Tasks of Power Engineering	10		С	6.0	180.0	80.0	48.0		32.0	100.0			5.0	6.0					130
OB 1.7	Energy Management		10	R	4,0	120,0	48,0	32,0		16,0	72,0			3,0	4,0					130
OB 1.8	Ecological Aspects of Power Industry	10		R	5,0	150,0	64,0	48,0		16,0	86,0			4,0	5,0					130
3.1.2	Block of disciplines 02 "Electrical systems and networks"				39,0	1170,0	576,0	320,0	80,0	176,0	594,0	18,0	18,0	18,0	21,0					
OB 2.1	Modern computer technologies in the transmission and distribution of electricity	9		CW	5,0	150,0	80,0	32,0	32,0	16,0	70,0	5,0	5,0							131
OB 2.2	Organization of Energy Consumption	9		R	4,0	120,0	64,0	32,0	16,0	16,0	56,0	4,0	4,0							131
OB 2.3	Control of Electric Power Systems Modes and Automation	9		С	4,0	120,0	64,0	32,0	16,0	16,0	56,0	4,0	4,0							131
OB 2.4	Mathematical Basis of Technical Diagnostics	9		С	5,0	150,0	80,0	48,0	16,0	16,0	70,0	5,0	5,0							131
OB 2.5	Design of objects of electric power branch	10		CP	6,0	180,0	96,0	48,0		48,0	84,0			6,0	6,0					131

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	29
OB 2.6	Basics of power safety	10		С	5,0	150,0	64,0	48,0		16,0	86,0			4,0	5,0					131
OB 2.7	Dispatch Management end information- management systems		10	R	5,0	150,0	64,0	48,0		16,0	86,0			4,0	5,0					131
OB 2.8	Basics of objects electrical systems and networks operation	10		R	5,0	150,0	64,0	32,0		32,0	86,0			4,0	5,0					131
3.1.5	Block of disciplines 05 "Energy Management and Energy Efficient Technologies"				39,0	1170,0	576,0	320,0	96,0	160,0	594,0	18,0	18,0	18,0	21,0					
OB 5.1	Modeling of electric power equipment and processess	9		CW	5,0	150,0	80,0	32,0	32,0	16,0	70,0	5,0	5,0							130
OB 5.2	Renewable energy systems and secondary energy resources	9		R	4,0	120,0	64,0	32,0	16,0	16,0	56,0	4,0	4,0							130
OB 5.3	Energy Management and Audit	9		С	5,0	150,0	80,0	48,0	16,0	16,0	70,0	5,0	5,0							130
OB 5.4	Ukraine's energy policy and energy marketing	9		С	4,0	120,0	64,0	32,0		32,0	56,0	4,0	4,0							130
OB 5.5	Design of electric power facilities and schemes	10		СР	6,0	180,0	96,0	48,0		48,0	84,0			6,0	6,0					130
OB 5.6	Electricity quality and quality management	10		С	6,0	180,0	80,0	48,0	16,0	16,0	100,0			5,0	6,0					130
OB 5.7	Ecological Aspects of Power Industry	10		R	5,0	150,0	64,0	48,0		16,0	86,0			4,0	5,0					130
OB 5.8	Acounting and measurement of energy parameters		10	R	4,0	120,0	48,0	32,0	16,0		72,0			3,0	4,0					130
	Total for education period				90,0	2700,0	816,0	448,0	80,0	288,0	1884,0	25,0	30,0	26,0	30,0		30,0			Í
	Hours per week											25	5,0	26	,0					l
	Number of exams											4	4	5	5					1
	Number of tests											4	4	1			1			1
	Number of course projects (works)					1		1						l						

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

Approved by the Academic Council of NTU "KhPI"

protocol № 4 from 03.07.2020

Head of the educational program Vice-rector of Scientific-and-Pedagogical Work \_Gennadyi KHRYPUNOV Oleksandr LAZURENKO Signature Full name Signature Full name Head of the Institute of Education and Science in Power Engineering, Electronics and Head of the Department of Electric power Electromechanics Roman TOMASHEVSKYI transmission Sergyi SHEVCHENKO Signature Full name Signature Full name Head of the Department of Power Stations Oleksandr LAZURENKO Head of the Department Signature Full name

\* Practices and attestations are carried out by graduating