

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

CURRICULUM

PPROVE																							(Eni	roin	ien	20	177)																						
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Mykhailo Zgurovsky Speciality						141 Electricity, electrical engineering and electromechanics										Faculty (Institute) FEA																																	
	2017 Specialization					Electric machines and apparatus										Qualification <u>res</u> earch <u>engine</u> er																																	
	For the educational and scientific program of master's training Electric machines and apparatus Study duration 1 year 9 months																																																
	Graduation Department								Ва	se	lev	əl		Bac	chel	or de	egre	е																															
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AR S	Septen	nber			Octob	oer			Nov	emb	er		Dece	embe	er		Ja	nuar	/			Jan	uary			Ma	rch			Аp	ril			Ma	iy			Ju	ine				July				Augu	st	
<u>J</u> 1	2	3	4	5 6	3 7	8	9	10	11	12	13 14	1 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 5	1 52	2
1		Т								Т						Ε	Е	Н	н										П		П							E	Ε	Н	Н	Н	Н	Н	Н	н	н	1 H	нĪ
II																Е	Е	Н	Н	Р	Р	Р	Р	Р	R	R	R	RI	R I	R	R	R	R	R	R	Α													
Symbol	s:		Le	earnir	ng per	iod	Ε	Exa	minati	on	•	Р	Pra	ctice)		R	Rese	arch	h		Α	Asse	essm	ent		Н	Holid	lay																				

	II. Summary table of time budget (Weeks)												
YEAR	Learning period	Examinatio n	Practice	Assessme nt	Research	Holiday	Total						
1	36	4				12	52						
Ш	18	2	5		12	2	39						

III. Practice											
YEAR	Weeks										
2	5										

IV. Graduates assessment										
Subjects	Form of graduates assessment (exam, graduation project)	YEAR								
Implementation of the master's thesis	Defense of the master's thesis	2								

V. Plan of Educational process

	V. Plan of Educational process Distribution for terms												
		Dio	(seme					Numl					
				s		its		Lect	ures/pra	ctical			
Code	Subjects	Exams	Final tests	Course projects	Coursework	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study		
1	2	3	4	5	6	7	8	9	10	11	12		
I. GENERAL TRAINING													
I.1. Basic training (major courses)													
1/I	Patenting and Copyright Law		2			3	90	36	18		36		
2/I	Fundamentals of Electromechanotronics	3				4	120	36		18	66		
3/I	Mathematical Optimization Methods		3Д			4	120	36		18	66		
	total number of part I.1	1	2			11	330	108	18	36	168		
I.2. Basic training (optional courses)													
1/II	Fundamentals of Sustainable Development of Society		2			2	60	18	18		24		
2/II	Higher School Pedagogy		3			2	60	30	6		24		
3/II	Innovation Management		1			3	90	18	36		36		
4/11	Workshop on foreign language professional communication: I. English for Scientists - I, II. English for Scientists -III		2,3			4,5	135		108		27		
	total number of part 1.3		5			11,5	345	66	168		111		
	I.3. Science Res	earch	ı (opt	ional	cours	es)	1	1	1	I			
	Scientific researches at the masters thesis aim												
1/III	1.Fundamentals of Scientific Research		1Д			2	60	9	18		33		
2/III	2.Scientific Research		2Д,3Д			5,5	165		18		147		
3/III	Scientific and Research Practice		4Д			9	270				270		
4/111	Master Thesis					21	630				630		
	total number of part I.3		4			37,5	1125	9	36		1080		
	TOTAL IN GENERAL TRAINING	1	11			60	1800	183	222	36	1359		

	II. VOCA	ΓΙΟΝ <i>Α</i>	AL TR	AININ	G						
	II.1. Vocational and pra	actica	l trair	ning (r	najor	course	es)				
1/c	Technical Electrodynamics	3				6	180	36	36		108
2/c	Fundamentals of Electromechanical Structures Theory	3				6	180	36	36		108
3/c	Electrical Machines Reliability	1				7	210	63		36	111
4/c	Powerful electromechanical complexes and energy saving during their operation : 1Traction Electrical Machines, 2	1,2				11,5	345	144	36		165
5/c	Electrical Machinery of Automation Systems	2			2	6,5	195	54		36	105
6/c	Special Electrical Machines	1			1	4	120	36	18		66
7/c	Tests, Defect Diagnosis and Service Maintenance of Electrical Machines		1			3,5	105	45		9	51
8/c	Fundamentals of Electrical Machines Automated Design		1			2,5	75	27		9	39
9/c	Fundamentals of Electromechanotronics	2				4	120	36		18	66
10/c	Electric Drive Control Systems		1			3	90	27		18	45
11/c	Low-Voltage Electrical Switching Devices		2			3	90	18		18	54
12/c	Fundamentals of Innovation Synthesis of Electromechanical Systems		3			3	90	18	18		54
	total number of part II.1	8	5		2	60,0	1800	540	144	144	972
	II.2. Vocational and prac	ctical	traini	ng (op	otiona	l cours	ses)				
	total number of part II.2	8	5	0	2	60	1800	450	54	144	702
	TOTAL IN VOCATIONAL TRAINING	11	5	0	2	66	1980	531	234	144	1791
	TOTAL	12	16		2	126	3780	723	366	180	2331

Approved by Faculty Academic Council, Meeting	ng protocol № _8_ from Marth 27, 2017
Head of the Department	Shynkarenko V.F. / Yandulsky O.S. /