	MINISTRY OF E National Technical University	EDUCATION AND SCIENCE OF UKRAINE of Ukraine "Igor Sikorsky Kyiv Polytechn CURRICULUM	ic Institute"	
APPROVED	(Enrolment 2020	of citizen of the United States of America)		
by Academic Council	Level PhD		Form of study	full-time
Igor Sikorsky Kyiv Polytechnic Institute				(full-time, part-time)
(meeting protocol № from 2020)	Speciality 141 - Electric power e electromechanics	ngineering, electrical engineering and	Qualification	Doctor of philosophy in electric power engineering, electrical engineering and electromechanics
Head of Academic Council	Educational and Scientific program	n Electric power engineering,	Study duration	4 years
Mykhaylo ILCHENKO	electrical engineering	g and electromechanics	Base level	Master degree
			Educational compon	ent 40 ECTS Credits
	Faculty (Institute) Faculty of elect	tric power engineering and automatics		

	Schedule of study																																																			
AR			Octob	er			Nov	embe	r		De	ecem	ber			Jan	uary			Febru	lary			Ма	rch				April				М	ay			Ju	ne				July	,			Aug	just		:	Sept	temb	er
ΥE	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	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
I														Ε	Е	Ε	R	R	RT	RT	RT																Е	Ε	R	Н	Н	Н	Н	Н	Н	Н	Н	Н	R	RT	RT	RT
П												Т	Т	Е	Е	Е	R	R	RT	RT	RT																Ш	Е	R	н	н	н	н	н	н	н	н	н	R	RT	RT	RT
Ш	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	RT	RT	RT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	н	Н	н	н	н	н	н	н	н	R	RT	RT	RT
١V	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	RT	RT	RT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	н	н	н	н	н	н	н	н	н	R	RT	RT	RT
Sy	mbo	ls:		Lear	ming	perio	d		Е	Ex	amina	ation			Ι	Inte	rnshi	р		R	Rese	earch	I		RT	Repo	ort			А	Ass	essn	nent		Н	Holi	day															

	I. Educational component											
S	Summar	y table of	time bu	idget (We	eeks)		Intern	iship				
YEAR	Learning period	Examination	Internship	Holiday	Total		Type of Internship	YEAR	Weeks			
1	28	5		9	42		Pedagogical internship	2	2			
Ш	26	5	2	9	42							

	Plan of Ed	lucatio	nal pro	cess													
		Distribution for terms (semesters)							Number of hours								
۵			s	ask	st	redit		Lect	ires/practical lessons		~						
Cod	Educational components	Exams	Final test	Individual t	Module te	ECTS CI	Total	Lectures	Practical	Laboratory	Self-stud						
1	2	3	4	5	6	7	8	9	10	11	12						
	1. Norma	tive co	mpon	ients													
	1.1. Humar	nities tr	aining	cycle													
Z01	Philosophical Principles of Scientific Activity	2	1	2	1	6	180	31	49		100						
	1.2. Language training cycle																
ZO2	Foreign Language for Scientific Activity	2	1	1	2	6	180		76		104						
	1.3. General training cycle																
ZO3	Methods of Research, Formation and Control of Intelligent Energy Systems and Complexes	4		4	4	3	90	36	18		36						

ZO4	Fundamentals of Theory of Electromagnetic Field and Processes		3	3	3	3	90	26	13		51			
ZO5	Non-conventional and Renewable Energy Sources in Electric Power Systems and Electrotechnical Comlexes		4	4	4	3	90	36	18		36			
ZO6	Monitoring, Control and Protection of Electric Power Systems and Electrotechnical Complexes	3		3	3	3	90	26	13		51			
	1.4. Vocational training cycle													
PO1	Advanced Technologies in Electric Drive and Electromechanical Systems	3	2	2,3	2,3	4	120	31	9		80			
PO2	Pedagogical Internship		3			2	60				60			
	TOTAL of NORMATIVE educational components	5	6	8	8	30	900	186	196		518			
	2. Electi	ve con	nponei	nts										
V1	Optional subject #1 from F-Catalogue		3	3	3	3	90	27			63			
V2	Optional subject #2 from F-Catalogue		4	4	4	3	90	18	9		63			
V3	Optional subject #3 from F-Catalogue	4		4	4	4	120	18	9		93			
	TOTAL of ELECTIVE educational components	1	2	3	3	10	300	63	18		219			
	TOTAL	6	8	11	11	40	1200	249	214		737			

	II. Scientific component	
YEAR	The content of the graduate student's scientific work	Forms of control (Reporting)
1st year	Choice and substantiation of the topic of own scientific research, determination of the content, terms of performance and volume of scientific works; selection and substantiation of the methodology of conducting own research, review and analysis of existing views and approaches that have developed in modern science in the chosen field. Preparation and publication of at least 1 article (usually a review) in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Approval of the individual plan of the postgraduate student's work at the academic council of the institute / faculty, reporting on the progress of the individual postgraduate student's plan twice a year
2nd year	Conducting own research under the guidance of the supervisor, which involves solving research problems through the use of a set of theoretical and empirical methods. Preparation and publication of at least 1 article in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual postgraduate student's plan twice a year
3rd year	Analysis and generalization of the obtained results of own scientific research; substantiation of scientific novelty of the obtained results, their theoretical and / or practical significance. Preparation and publication of at least the 1st article in scientific professional publications on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting on the progress of the individual postgraduate student's plan twice a year
4th year	Registration of scientific achievements of the post-graduate student in the form of the dissertation, summing up concerning completeness of coverage of results of the dissertation in scientific articles according to the current requirements. Implementation of the obtained results and receipt of supporting documents. Submission of documents for preliminary examination of the dissertation. Preparation of a scientific report for final certification (defense of the dissertation).	Reporting on the progress of the individual postgraduate student's plan twice a year. Providing an opinion on the scientific novelty, theoretical and practical significance of the dissertation results.

Head of the Scientific and Methodical Board of Speciality_____/ Oleksandr Yandulsky / Dean of the Faculty ______ / Oleksandr Yandulsky /