

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2020)

by Academic Council	Level	PhD	Form of study	full-time
Igor Sikorsky Kyiv Polytechnic Institute (мeeting protocol № from 2020)	Speciality	Electric power engineering, electrical engineering and electromechanics	Qualification	(full-time, part-time) Doctor of philosophy in electric power engineering, electrical engineering and electromechanics
Head of Academic Council	Educationa	I and Scientific program	Study duration	4 years
Mykhaylo ILCHENKO	Electric	power engineering, electrical engineering and electromechanics	Base level	Master degree
	Faculty (Ins	Stitute) Faculty of electric power engineering and automatics	Educational compo	nent 40 ECTS Credits
		Schedule of study		

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AR			Octob	er			Nove	ember	r		De	cem	ber			Jan	uary	,		Feb	ruary			Ма	rch			-	April				Ma	ay			Ju	ne				July				Augı	ust		S	Septe	embe	ər
YE	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
П														Ε	Ε	E	R	R	RT	RT	RT																П	Е	R	I	H	Н	Н	Н	Н	Н	Н	Н	R	RT	RT	RT
П												Τ	ı	Е	Ε	E	R	R	RT	RT	RT																Е	Е	R	Н	Н	Н	Н	Н	Н	Н	Н	Н	R	RT	RT	RT
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Sy	mb	ols:		Lea	rning p	erioc	t		Е	Exa	mina	tion	-	-	I	Inte	rnsh	ip	_	R	Rese	earch)		RT	Repo	ort			Α	Asse	essm	ent		Н	Holid	day															

	Plan of Ed	ucatio	nal pro	cess											
		Dist		n for te esters)	erms	ts	Number of hours								
Φ			S	task	test	Credits		Lect	ures/prad lessons	>					
Code	Educational components	Exams	Final tests	Individual t	Module te	ECTS Cr	Total	Lectures	Practical	Laboratory	Self-study				
1	2	3	4	5	6	7	8	9	10	11	12				
	1. Norma	tive co	mpor	nents											
	1.1. Human	ities tr	aining	cycle											
ZO1	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	ZO3 Methods of Research, Formation and Control of Intelligent Energy Systems and Complexes			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	npone	nts							
V1	Optional subject #1 from F-Catalogue		3	3	3	3	90	27			63
V2	Optional subject #1 from F-Catalogue		4	4	4	3	90	18	9		63
V3	Optional subject #1 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	c and Methodical Board of Speciality	_ / Oleksandr Yandulsky
Dean of the Faculty	/ Oleksandr Yandulsky /	