MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

Head of Academic Council

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

CURRICULUM Enrolment 2021

	Level
PPROVED	
Annalamaia Causail	

Doctor of Philosophy (Name of Educational Level) Field of Knowledge 14 Electrical Engineering by Academic Council Igor Sikorsky Kyiv Polytechnic Institute (Meeting protocol № ___ from _____ 2021) Specialty

142 Power Machinery **Educational and Scientific program**

Power Machinery ___ Mykhaylo ILCHENKO Form of Study Full-Time (full-time, evening)

Basic Level Master degree

Scope of Educational Component

Duration of Study

50 ECTS Credits

4 years

Schedule of Study

Ā			Octob	ber			Nove	embe	r		D	ecem	ber			Jar	nuary			Fe	bruar	,		Ma	rch				April				Ма	у		J	une				July				Aug	just		S	epten	nber	П
7	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 3	5 36	37	38	39	40	41	42	43	44	45	46	47	48	49 5	0 5	1 !	52
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I. Educational Component

u	mm	nary Ta	ble of	Time	Budge	t (Wee	ks)
	YEA R	Learning period	Examinatio n	Internship	Holiday	Total	
	_	28	5		9	42	
	=	26	5	2	9	42	l
	П	26	5	2	Q	42	

Practice											
Type of Practice	Semester	Weeks									
Pedagogical Practice	3	2									

				<u>ational</u>		ss	1					
		Dist	ributior seme:	i for ter sters)	ms			N	umber	of hou	rs	
	Educational components			<i>'</i>		its						
ge .	(academic disciplines, course projects		sts	Tas	st	red	be			including		λ
Code	(works), practices, qualification work)	Exams	Final Tests	Individual Task	Module Test	ECTS Credits	Total Scope	Total	Lections	Practical	Laboratory	Self-study
1. Normative components												
Educational disciplines for mastering general-scientific (philosophical) competencies												
ZO1	Philosophical principles of scientific activity	2	1	2	1	6	180	80	31	49		100
Educational disciplines for acquiring language competencies												
ZO2	Foreign language for scientific activity	2	1	1	2	6	180	75		75		105
Educational disciplines for obtaining in-depth knowledge of the specialty												
PO1	Methods of intensification of heat and mass transfer processes in heterogeneous systems	1		1	1	4	120	39	39			81
PO2	Kinetics of phase transformations in power equipment	2			2	4	120	54	54			66
PO3	Transfer theory	3			3	4	120	39	33	6		81
PO4	Turbulance Theory	4		4	4	4	120	54	54			66
	Educational disciplines for the acqu	isition	of uni	versal	comp	etenc	ies of	the re	searc	her		
PO5	Scientific and innovative activities organization	1		1		3	90	26	13	13		64
PO6	Modeling of three-dimensional tasks of hydrodynamics and heat exchange in power equipment		2	2	2	3	90	36		36		54
PO7	Pedagogical practice		3			2	60					
	TOTAL Normative Components	7	4	6	7	36	1080	403	224	179		617
	2. E	lective	comp	onents	;							
B1	Educational component 1. IF- Catalog	3			3	7	210	65	52	13		145
B2	Educational component 2. IF- Catalog	4			4	7	210	72	54	18		138
	TOTAL of ELECTIVE Components	2			2	14	420	137	106	31		283
	Total Number	9	4	6	9	50	1500	540	330	210		900

	2. Scientific component	
	Plan of Scientific Work	
Year	The content of the graduate student's scientific work	Forms of control (Reporting)
1st year	The choice of the topic of the graduate student's dissertation, the formation of an individual work plan of the graduate student; execution of the dissertation work under the guidance of the scientific supervisor; preparation and submission for publicatio	Approval by the academic council of the institute / faculty by 30.11.2021, reporting on the implementation of the individual plan of the graduate student twice a year.
2nd year	Execution under the guidance of the supervisor of the dissertation; preparation and submission for publication of at least 1 publication for the dissertation topic in accordance with current requirements.	Reporting on the implementation of the individual plan of the graduate student twice a year.
3rd year	Execution under the guidance of the supervisor of the dissertation; preparation and submission for publication of at least 1 publication for the dissertation topic in accordance with current requirements.	Reporting on the implementation of the individual plan of the graduate student twice a year.
4th year	Completion of the dissertation, summarizing the results of publications (at least three) on the topic of the dissertation in accordance with current requirements. Submission of documents for preliminary examination of the dissertation. Graduation certif	Reporting on the implementation of the individual plan of the graduate student twice a year. Providing an opinion on the scientific novelty, theoretical and practical significance of the dissertation results. PhD thesis defense.

Head of the SMB of Speciality		1	Valery TUZ		/
	(Signature)		(Name)		
Head of the NPS and ETP Department		1	Valery TUZ	/	
	(Signature)		(Name)		
Dean of the Heat and Power Engineering Faculty		1	Yevgen PYSMENNYY		/