

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2021)

APPROVED	Level	Master	Field of Knowle	14 Electrical Engineering	Faculty (Institute)	Heat and Power
by Academic Council		(Name of Educational Level)		(Code and Name of the Field of Knowledge)		Engineering
Igor Sikorsky Kyiv Polytechnic Institute	Speciality		143 Nuclear	Power Engineering	Qualification	Master of Nuclear Energy
(мeeting protocol № from 2021)			(Code and	Name of the Specialty)		
		Study duration	1 year 9 month			
Head of Academic Council						
			Nuclear	power plants	Base level	Bachelor
Mykhaylo ILCHENKO			(Title	e of the program)		(Educational Degree is Indicated)
		Form of study	(tuil-time, evenir	full-time ng, part-time (remote), externsnip)		
		Graduation Department	Nuclear Power	Stations and Engineering Thermal Phys	cs	

I. Schedule of educational process January February March September October November Decembefr January April Мау June August July

 bit ward
 <th 1 2 3 4 1 H Holiday P Practice R Research R/A Research and Assessment. Symbols: Learning peri E Examination

II. Summary Table of Time Budget (Weeks)								
YEAR	Learning period	Examinatio n	Practice	Assessme nt	Master's Thesis Implementation and Defence	Holiday	Total	
I	36	4				12	52	
=	18	2	5		12	2	39	

III. Practice							
Type of practice	Semester	Weeks					
Research	4	5					

IV. Graduates Assessment							
Subjects	Form of graduates assessment						
Master Thesis	Master Thesis Defence						

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V. Plan of Educational process Distribution for terms Number of Hours								rs				
		(semesters)				its						
de	Subjects		its	jects	ork	redi	obe		Including			dy .
Co			Final tes	Course pro	Coursewo	ECTS C	General So	Total	Lections	Practical	Laboratory	Self-Stud
1	2 1. Normativ	3 /e Edu	4 cationa	5 al Com	6 ponen	7 ts	8	9	10	11	12	13
	1.1. 0	Genera	l Traini	ng Cyc	le							
	1.1. 0	enera	l Traini	ng Cyc	le							
30 3	Intellectual Property and Patenting		1		1	3,0	90	54	36	18		36
30 2	Sustainable Innovative Development		1		1	2,0	60	36	18	18		24
30 4	Management of Startup Projects		2		2	3,0	90	54	18	36		36
30 5	Pedagogy of high school		3	3	3	2,0	60	36	18	18		24
30 1	Foreign Language		2,3	1	1,3	4,5	135	108		108		27
	TOTAL of General training cycle EC	cation	6 al Traiı	2 Ding Cu	6 (cle	14,5	435	288	90	198		147
ПО 6	Theory and systems of automatic control of nuclear power plants		1		1	3,0	90	54	36		18	36
ПО 1	Mathematical modeling of systems and processes	1		1		4,0	120	54	18	36		66
ПО 7	Control and regulation of steam turbines of nuclear power plants		1	1	1	3,5	105	54	27	27		51
ПО 2	Methods of risk and reliability analysis of nuclear power plants	1			1	4,5	135	54	36		18	81
ПО 3	Course work on methods of risk analysis and reliability of nuclear power plants		1			1,0	30					30
ПО 4	Operating modes of nuclear power plants	1		1	1	5,5	165	72	45	9	18	93
ПВ 5	Course work on the modes of operation of nuclear power plants	2		2	2	3,5	105	36	27	9		69
ПО 8	Nuclear safety culture	3		3	3	5,0	150	54	36	18		96
ПО 9	Nuclear power plants accidents analysis and management	3			3	7,0	210	72	45	27		138
ПО 10	Course work on nuclear power plants accidents analysis and management		3			1,0	30					30
	Researc	h (Sci∉	entific)	Compo	onent							
ПО 11	Scientific Work on the Topic of Master's Thesis		1,2,3	2,3		11,5	345	63	9	54		282
TIO 12	Research practice		4			9,0	270					270
110 13	Master's Thesis Implementation	6	8	7	7	17,0 75.5	510 2265	513	279	180		510 1752
то	TAL of NORMATIVE educational components	6	14	9	13	90,0	2700	801	369	378		1899
2. Elective Components												
ПВ 1	Educational component 1. F-Catalog	2	115 110	ninter	2	6,0	180	72	54	alogs) 18		108
ПВ 2	Educational component 2. F-Catalog	2		2	2	6,0	180	90	36	27	27	90
ПВ 3	Educational component 3. F-Catalog		2	2	2	4,0	120	36	27	9		84
ПВ 4	Educational component 4. F-Catalog		2	2	2	4,0	120	54	36	18		66
ПВ 5	Educational component 5. F-Catalog		2		2	4,0	120	54	36	18		66
ПВ 6	Educational component 6. F-Catalog	3		3	3	6,0	180	90	72	18		90
Total El	ective Educational Components of Vocational	3	3	4	6	30	900	2115	1134	810	63	5805
TOTAL	Total Number	9	17	13	19	120	3600	2916	1503	1188	63	7704

Head of the SMB of Speciality		/ Evgen Pysmennyy /		
	(Signature)	(Name)		
Head of the NPS and ETP Department		/ Valeriy Tuz /	Dean of the Heat and Power Engineering Faculty	/ Evgen Pysmennyy /
-	(Signature)	(Name)	(Signature)	(Name)