APPROVED

by Academic Council

Igor Sikorsky Kyiv Polytechnic Institute (meeting protocol № № _3_ from _15.03_ 2021)

Head of Academic Council

_____ Mykhaylo ILCHENKO

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2021)

Level	Master	Form of study	full-time	
			(full-time, part-time)	
Speciality	144 Heat power	Qualification	Master degree	
		Study duration	1 year 9 months	
Educational and Scientific	Heat Power and Heat Power Units of			
program	Power Plants	Base level	Bachelor degree	
Graduation Department	Department of Heat and Power Engineering	_		
Faculty (Institute)	Faculty of Heat and Power Egineering			

I. Schedule of educational process

	August		July	J)	June	J			lay	M			il	Apr				ırch	Ma			uary	Feb			ry	nuar	Ja			ber	ecen	D			er	vemb	No				er	ctobe	0			oer	tem	Sep		٩R
	49 50 51	17 48	46	45	4 4	13 44	2 4	1 4	41	40	39	38	37	36	35	34	3	2 3	32	31	30	29	28	27	26		24	23	22	21		19	18	17	16	15	4	14			11	10	9	3	8	7	6	5	4		3	2	1	ΥE
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II. Summary table of time budget (Weeks)

VEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
ı	36	4				12	52
П	18	2	6	2	9	2	39

III. Practice

Type of practice	YEAR	Weeks
Research practice	4	6

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR	
Master's Thesis Implementation	Protection of the master's thesis	4	

V. Plan of Educational process

		Dist	ributio seme)	n for te esters)	rms			Numl	oer of h	nours	
				šk		dits		Lect	ures/prac lessons	tical	
Code	Subjects	Exams	Final tests	Individual task	Module test	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study
1	2	3	4	5	6	7	8	9	10	11	12
	1. Normative educa	itiona	I com	poner	ıts						
	1.1. General t	rainir	ng cyc	le							
GM 1	Intellectual Property and Patenting		1		1	3	54	36	18		36
GM 2	Sustainable Innovative Development		1		1	2	36	18	18		24
GM 3	Management of Startup Projects		2		2	3	54	18	36		36
GM 4	Workshop on Foreign Language Scientific Communication		2.3	1	1.3	4.5	72		72		63
GM 5	Pedagogy of High School		3	3	3	2	36	18	18		24
	total number of part 1.1		6	2	6	14.5	252	90	162		183

	1.2. Vocationa	l trair	ing c	/cle							
VM 1	Energy and Resource Saving in Energetics	1	.5 -,	1	1	4	54	36	18		66
VM 2	Course Work on Energy and Resource Saving		2		•	1	•				30
\/B4 0	Methods of Thermodynamic Analysis of Plants	_		_	4	_	70	- 4	40		70
VM 3	and Systems Subject	1		1	1	5	72	54	18		78
VM 4	Design of Thermal and Nuclear Power Plants	1				5	72	36	36		78
VM 5	Course Project on Design of Thermal and Nuclear Power Plants		1			1.5					45
VM 6	Combined Energy Generation		1	1	1	2	36	18	18		24
VM 7	Automated control systems for thermal energy processes		1		1	4	72	36		36	48
VM 8	Organization and planning of a scientific experiment		2		2	3.5	54	36		18	51
VM 9	Mathematical Simulation of Systems and Processes	3		3	3	4	54	36	18		66
VM 10	Use of Solar Energy and Energy Accumulation	3		3	3	3.5	36	18	18		69
VM 11	Course Work on Use of Solar Energy and		3			1					30
	Energy Accumulation		3			•					30
VM 12	Special Issues of Thermal Power Plants		3	3	3	3	54	36	18		36
	total number of part 1.2	5	7	6	8	38	504	306	144	54	621
	I.3. Science (Rese	earch)	com	poner	nt						
VM 13	Scientific Work on the Topic of Master's Thesis		1,2,3			10	90	18	72		210
	Research practice		4			10					300
VM 15	Master's Thesis Implementation					16					480
	total number of part 1.3		4			36	90	18	72		990
	TOTAL of NORMATIVE educational components	5	17	8	14	88	846	414	378	54	1794
	2. Optional educa	tional	comp	onent	s						
:	2.1. Vocational training cycle (Optional education	al con	npone	nts fro	om fac	culty /	depart	ment	catalo	gs)	
VO 1	Educational component 1. P-Catalog	2		2	2	5	54	36	18		96
VO 2	Educational component 2. P-Catalog	2		2	2	5	54	36	18		96
VO 3	Educational component 3. P-Catalog		2	2	2	4	54	36	18		66
VO 4	Educational component 4. P-Catalog		2	2	2	4	54	36	18		66
VO 5	Educational component 5. P-Catalog	2		2	2	5	54	36	18		96
VO 6	Educational component 6. P-Catalog		3	3	3	4	72	36	36		48
VO 7	Educational component 7. P-Catalog	3		3	3	5	72	36	36		78
	total number of part 2.1	4	3	7	7	32	414	252	162		546
	TOTAL of OPTIONAL educational components	4	3	7	7	32	414	252	162		546
	TOTAL	9	20	15	21	120	1260	666	540	54	2340

Approved by University Academic Council, Meeting protocol № 3 from March 15, 2021

Act. Head of the Department	/Olga CHERNOUSENKO/
Dean of the Faculty (Director of the Institute)	/ Yevhen PYSMENNY