MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

APPR	OVI	ED																(ICU Iment 2		М													
y Academic Council Level							evel						Bachelor						_	Form	tudy	_	full-time													
or Sikorsky Kyiv Polytechnic Institute leeting protocol № _3_ from _15.03_ 2021) Specia								peciality						144 Heat power							Qualification				(full-time, part-time) Bachelor degree											
Head of	ead of Academic Council																			_				-												
								Educational and						Heat Power and Heat Power Units of						Study duration			n _	3 years 10 months												
	Pro 2021							rofe	ssion	nal p	rogi	ram			Power Plants							Base level			-	Full Secondary Education										
	 Gra								Graduation Department						Department of Heat and Power Engineering							_														
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1. Normative educational components

1.1. General training cycle												
GM 1	Higher Mathematics	1.2		1.2	1.2	17	288	144	144		222	
GM 2	Physics	1.2		1.2	1.2	10	162	72	54	36	138	
GM 3	Engineering Graphics	1	2	1.2	1.2	7.5	126	36	72	18	99	
GM 4	Language culture and business speech		2		2	2	36	18	18		24	
GM 5	Material Science and Technology of Materials		1	1	1	3.5	54	36	9	9	51	
GM 6	Basics of a healthy lifestyle		2		1	3	72	18	54		18	
GM 7	Foreign Language		2.4		1.3	6	144		144		36	
GM 8	Chemistry		2		2	4	72	36		36	48	
GM 9	Theoretical Mechanics	2		2	2	4	63	36	27		57	
GM 10	Ukraine in the context of the historical development of		1		1	2	36	18	18		24	

GM 11	Fundamentals of Electric Engineering and Electronics		2	2	2	4	72	36	18	18	48
GM 12	Hydro-gas Dynamics	3		3	3	6	90	54	36		90
GM 13	Information Technologies		3.4	3.4	3.4	6.5	117	45	36	36	78
GM 14	Technical Thermodynamics	4	3	3.4	3.4	9.5	162	90	63	9	123
	Heat and Mass Exchange	4.5		4.5	4.5	11.5	171	90	72	9	174
GM 16	Course Work on Heat and Mass Exchange		5			1					30
GM 17	Economics and Production Organization		7		7	4	72	36	36		48
GM 18	Labor Occupational Safety and Civil Defense		7		7	4	72	36	28	8	48
GM 19	Foreign Language for Professional Purposes	8	6		5.7	6	126		126		54
GM 20	Engineering ecology of energy		4		4	2	36	18	18		24
GM 21	Introduction to philosophy		3		3	2	36	18	18		24
GM 22	Labor Law		5		5	2	36	18	18		24
	total number of part 1.1	11	19	16	29	117.5	2043	855	1009	179	1482
	1.2. Vocationa	al train	ing cyc	ele							
VM 1	Technical Mechanics	3	4	3	3.4	6	90	54	36		90
VM 2	Combustion of fuel and equipment for its combustion	4		4	4	5	72	36	36		78
VM 3	Boiler Systems	7.8		7.8	7.8	6.5	72	36	18	18	123
VM 4	Course Project on Boiler Systems		8			1.5					45
VM 5	Turbines of Thermal and Nuclear Power Plants	5	6	5.6	5.6	6	90	54	18	18	90
	Course Work on Turbines of Thermal and Nuclear										
VM 6	Power Plants		6			1.5					45
VM 7	Thermal and Nuclear Power Plants and Installations	6	7	6.7	6.7	7	108	54	36	18	102
VM 8	Heat Engineering Processes and Equipment	6.7		6.7	6.7	7	90	54	36		120
VM 9	Heat Engineering Measurements	3		3	3	4	54	36		18	66
VM 10	Unconventional energy sources		3	3	3	2.5		18	18		75
VM 13	Superchargers and heat engines		4	4	4	3.5	54	18	18	18	51
VM 12	Pre-Diploma Practice		8			6					180
VM 13	Diploma Project					6					180
	total number of part 1.2	8	9	9	13	62.5	630	360	216	90	1245
	TOTAL of NORMATIVE educational components	19	28	25	42	180	2673	1215	1225	269	2727
	2. Optional educa				72	100	2010	12.10	1220	200	
2.1. General training cycle (Optional educational components from University catalog)											
GO 1	Educational component 1. U-Catalog	lionai	3	lients	3	2	36	18	18		24
GO 2	Educational component 1. U-Catalog		4		4	2	36	18	18		24
GU 2			2		3	4		36			
	total number of part 2.1			<u> </u>	-	-	72		36		48
	2.2. Vocational training cycle (Optional education	al com									
VO 1	Educational component 1. F-Catalog	-	5	5	5	4	72	36	36		48
VO 2	Educational component 2. F-Catalog	-	5	5	5	4	72	36	36		48
VO 3	Educational component 3. F-Catalog		5	5	5	4	72	36	36		48
VO 4	Educational component 4. F-Catalog	ļ	5	5	5	4	72	36	36		48
VO 5	Educational component 5. F-Catalog	-	6	6	6	4	72	36	36		48
VO 6	Educational component 6. F-Catalog	-	6	6	6	4	72	36	36		48
VO 7	Educational component 7. F-Catalog		6	6	6	4	72	36	36		48
VO 8	Educational component 8. F-Catalog	-	6	6	6	4	72	36	36		48
VO 9	Educational component 9. F-Catalog	-	7	7	7	4	72	36	36		48
VO 10	Educational component 10. F-Catalog		7	7	7	4	72	36	36		48
VO 11	Educational component 11. F-Catalog	-	7	7	7	4	72	36	36		48
VO 11	Educational component 11. F-Catalog		8	8	8	4	54	36	18		66
VO 13	Educational component 11. F-Catalog		8	8	8	4	54	36	18		66
VO 14	Educational component 12. F-Catalog		8	8	8	4	54	36	18		66
	total number of part 2.2		14	15	15	56	954	504	450		726
	TOTAL of OPTIONAL educational components		16	15	18	60	1026	540	486		774
	TOTAL	19	44	40	60	240	3699	1755	1711	269	3501
l	TOTAL			70	-	270	3000	1100		2	10001

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