

APPROVED

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

CURRICULUM

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

(Enrolment 2021)

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•	cademic Council y Kyiv Polytechnic Institute	Level	Master	Form of study	full-time
joi Sikoisk	Mykhaylo ILCHENKO	Speciality	132 Materials Science	Faculty (Institute)	(full-time, part-time) IMZ
	2021	Specialization	Nanotechnologies and Computer-aided		Master of Materials
		Specialization	Materials Design	Qualification	Science
		Profile program	Master degree	Study duration	1 year 4 months
		Graduation Departr	ment High Temperature Materials and Powder Metallurgy	Base level	Bachelor degree

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Ä	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 4	10 4	41 4	12	43	44	45	46	47	48	49 5	50 5	1 5	52
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	II. Summary table of time budget (Weeks)											
YEAR	Learning period	Examinati on	Practice	Assessme nt	Research	Holiday	Total					
ı	36	4				12	52					
II			8	3	7		18					

III. I	Practice	
Type of practice	YEAR	Weeks
Practice	3	8

IV. Gradu	uates assessment	
Subjects	Form of graduates assessment (exam, graduation project)	YEAR
Completion of a Master's Thesis	Master's Thesis Implementation	3

	V. Plan o	of Educ	ationa	l proce	ss										
		Distribution for terms (semesters)						Number of hours							
	Si Si							Lect	ures/prad lessons	ctical					
Code	Subjects	Exams	Final tests	Course projects	Coursework	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study				
1	2	3	4	5	6	7	8	9	10	11	12				
	1. Compulsor	y educ	ation	al com	ponen	ts									
	1.1. Ge	neral	trainir	ng cycl	le										
GO I	Intellectual Property and Patenting		1			3	90	36	18		36				
GO II	Sustainable innovative development		1			2	60	18	18		24				
GO III	Practical course of foreign language scientific communication		2			3	90		72		18				
GO IV	Startup project management		2			3	90	18	36		36				
	total number of part I.1	0	4	0	0	11	330	72	144	0	114				

	1.2.Voca	ationa	l train	ing cy	cle							
VO I	Engineering Materials Science	1				5	150	36	18		96	
VO II	Physics of Strength and Destruction		1			3	90	18		18	54	
VO III	Choice and Computer Design of Materials	1				4	120	28		26	66	
VO IV	Fundamentals of Theory and Technology of Refractory and Composite Materials	1				3.5	105	28		8	69	
VO V	Scientific Foundations for the Creation of Nanomaterials	2				3	90	28		8	54	
	Research (scientific) component											
VO VI	Scientific work on the topic of master's dissertation 1. Fundamentals of Scientific Research 2. Scientific Research		1, 2			10.5	315	8	36	136	135	
VO VII	Coursework on the discipline Scientific work on the topic of master's dissertation		2		2	1	30				30	
VO VIII	Practice		3			14	420				420	
VO IX	Completion of a Master's Thesis					12	360				360	
	total number of professional training	4	5	0	1	56	1680	146	54	196	1284	
	TOTAL IN GENERAL TRAINING	4	9	0	1	67	2010	218	198	196	1398	
	II. VOC											
	II.1. Vocation	nal an	d prac	tical t	raining		T					
PV I	Educational Component of 1 F - Catalog		2			5	150	36		18	96	
PV II	Educational Component of 2 F - Catalog	2				5	150	36		18	96	
PV III	Educational Component of 3 F - Catalog		2			4	120	36	18		66	
PV IV	Educational Component of 4 F - Catalog	2				5	150	36		18	96	
PV V	Educational Component of 5 F - Catalog		2			4	120	18		18	84	
	total number of part II.1	2	3	0	0	23	690	162	18	72	438	
	TOTAL IN VOCATIONAL TRAINING 2 3 0 0 23 690 162 18 72 438											
	TOTAL	6	12	0	1	90	2700	380	216	268	1836	

Approved by University Academic Council, Meeting protocol № 3 from 15.03.2021

Head of the Department	/ Yuriy BOGOMOL /
Director of the Institute	/ Yuriy SIDORENKO/