

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2020)

by	Igor Sikorsky Kyiv Polytechnic Institute	
	4	

2020

Meeting protocol № _ Head of Academic Council

Mikhail Ilchenko

Master 132 Materials Science Speciality

Specialization

Profile program

Nanotechnologies and Computer-aided Materials Design

Master degree

Faculty (Institute)

Form of study

Qualification

Study duration

(full-time, part-time)

full-time

Master of Materials Science

1 year 9 months Bachelor degree

	Graduation Department High Temperatu N									ure Met			ls ar	ıd P	owd	er			Ва	se l	eve	el					Bac	chel	or de	egre	ee									
		I. Schedule of educational process																																						
m	ber			Dece	embe	r		J	anua	ry			Feb	ruary			Ma	rch			Αį	oril			М	ay			Ju	ne				July				Au	gust	
2	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	40	41	42	43	44	45	46	47	48	49	50	51	52
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	II. Summary table of time budget (Weeks)								
YEAR	Learning period	Examinatio n	Practice	Assessme nt	Research	Holiday	Total		
-	38	4				12	52		
-	18	2	5		12	2	39		

III. Practice									
Type of practice	YEAR	Weeks							
Pre-diploma practice	4	5							

IV. Graduates assessment									
Subjects	Form of graduates assessment (exam, graduation project)	YEAR							
Work on a Master's Thesis	Master's Thesis Implementation	4							

I 38	4 12 52 2 5 12 2 39	rre-aipk	oma pract	ice	4		0	ł		VV OFK OF	a Master:		
	V. Plan of	Educa	ational	proces	ss								
	v. Flan or		tributio				Number of hours						
				esters)					oer of ures/pra				
				ş	J	dits		Lect	lessons				
Code	Subjects	Exams	Final tests	Course projects	Coursework	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study		
1	2 I. GEN	3 EDAL	4 TDAI	5	6	7	8	9	10	11	12		
	I. GEN				reae)								
GOI	Intellectual Property and Patenting]	1		1363)	3	90	36	18		36		
GO II	Academic discipline on the problems of sustainable development		1			2	60	18	18		24		
GO III	Foreign Language Professional Communication		2,3			4,5	135		108		27		
GO IV	Practicum Curricula of Management		2			3	90	18	36		36		
GO V	Mathematical Modelling and Optimization	3				5	150	36		36	78		
GO VI	Technological Processes and Materials Curricula of Pedagogy		3			2	60	18	18		24		
GO VII	Project Management		3			3	90	18	18		54		
	total number of part I.1	1	7	0	0	22,5	675	144	216	36	279		
	I.2. Pro		nal tr	aining									
PO I	Engineering Materials Science	1				4,5	135	36	18		81		
PO II	Physics of Strength and Destruction		1			2	60	18		9	33		
PO III	Вибір and Computer Design of Materials	1				4	120	27		27	66		
PO IV	Phase equilibria and phase transformations	1				4	120	36	18		66		
PO V	Practice of Scientific Research		1,2			7	210			135	75		
PO VI	Coursework of Practice of Scientific Research				2	1	30				30		
PO VII	Fundamentals of Theory and Technology of Refractory and Composite Materials	3				4	120	27		9	84		
PO VIII	Scientific Foundations for the Creation of Nanomaterials		3			3,5	105	27		9	69		
	Research (s	cienti	fic) co	mpone	nt								
PO IX	Scientific work on the topic of master's dissertation		1,3			7,5	225	9	36		180		
РО Х	Scientific and Research Practice		4			9	270				270		
PO XI	Preparation and Defence of Master's Thesis					21	630				630		
	total number of part I.3	4	7	<u> </u>	1	67,5	2025	180	72	189	1584		
	TOTAL IN GENERAL TRAINING II. VOCA	5 TION	14 AL TR	0 AININ	1 G	90	2700	324	288	225	1863		
	II. VOCA		fessio			1							
PVI	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			3,5	105	18		18	69		
PV VI	Educational Component of 6 F - Catalog	3				4	120	27	9		84		
PV VII	Educational Component of 7 F - Catalog	4	3 3	0	0	3,5 30	105 900	36 225	27	18 90	51 558		
	total number of part II.1 TOTAL IN VOCATIONAL TRAINING	4	3	0	0	30	900	225	27	90	558 558		
	TOTAL IN VOCATIONAL TRAINING TOTAL	9	17	0	1	120	3600	549	315	315	2421		
	101712												

Approved by Institute Academic Council, Meeting protocol № 3/20 from April 13, 2020

Head of the Department	/ Yuriy BOGOMOL
Director of the Institute	/ Petro LOBODA/