

“Approved”
Vice President



Додаток 5

V.N. Karazin Kharkiv National University

Work EDUCATIONAL PLAN for 2021-2022

speciality 105 "Applied Physics and Nanotechnologies"

(Educational-research program "Medical Physics" (the English language of instruction))

(шифр і назва спеціальності)

Year 1st **Master of Science** **Form of education** full-time

(денна, заочна)

Year	September				October				November				December				January				February				March				April				May				June				July				August						
	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	40	41	42	43	44	45	46	47	48	49	50	51
1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	3	C	C	C	K	K	K	K	T	T	T	T	T	T	T	T	T	T	T	T	T	T	3	C	C	C	K	K	K	K	K	K	K	K	K

LEGEND: T – theoretical studies; 3, C – examinations; П – training; K – vacations; // – certification examination; Д - thesis preparation and defence

Code	COURSES AND RESEARCH WORKS	Amount of ECTS- credits	Amount of academic hours				1 st term 16 Weeks								2 nd term 16 Weeks										Department											
			Total	actually allocated	read last year	for the current school year	Total	class hours					Self-preparation	Tests	Individual tests			Evaluation scale		Total	class hours					Self-preparation	Tests	Individual tests			Evaluation scale					
								Total	including:						abstracts, translations	computational-graphic works	research works	Four-level	Two-level		Total	Total	including:					Self-preparation	Tests	abstracts, translations	computational-graphic works	research works	Four-level	Two-level		
									Lectures	Laboratory examinations	Practical classes	Seminars											Lectures	Laboratory examinations											Practical classes	Seminars
1	Foreign language for professional purposes	3	90	90		90	30	30			30		0	1					x	60	24			24			1				x					
2	Ukrainian as a foreign language	4	120	120		120	60	32			32		28	1					x	60	32			32			1					x				
3	Methods of medical and biological research	6	180	180		180														180	80	80				100	2			x		КМФБМН				
4	Physical principles of radiotherapy	6	180	180		180	90	32	32			58						x	90	48		48			42	1					x	КМРБФТ				
5	Tomography with ionizing radiation	5	150	150		150													150	64	32		32			86	1			x		КМФБМН				
6	Dosimetry of ionizing radiation	6	180	180		180	180	96	80		16	84	1					x														КМФБМН				
7	Physics of biomolecules	6	180	180		180	180	64	64			116	1				x															КМФБМН				
8	Medical visualization / Methods of biomembrane research	6	180	180		180	180	64	48		16	116	1				x															КМФБМН				
9	Computational modelling in medicine and biology / Computational analysis of biomolecules	6	180	180		180	180	64	64			116	1				x			0					0							КМФБМН				
10	Molecular biology and genetics / Methods of bioengineering	6	180	180		180													180	64	64				116	1				x		КМФБМН				
11	Physics of biomembranes and bionanotechnologies / Probing nanotechnologies in electronics	6	180	180		180													180	64	64				116	1					x	КМФБМН				
РАЗОМ			60	1800	1800		1800	900	382	288		94	518				3	4	900	376	240	48	88		460					4	3					

"31" Травня 20 21

Director of Educational and Scientific Institute "School of Physics and Technology"

Igor GIRKA

signature, surname and initials

J. W. Smith