LOMONOSOV MOSCOW STATE UNIVERSITY FACULTY OF PHYSICS

WORKING PLAN

for the 2023/2024 academic year for students of the 1st year of the Master's program of the Faculty of Physics (Master's degree, full-time study) student of the program " MM_PHYSICS "(direction 03.04.02 "Physics", MAG. prog. "Physics of Neutrinos and Fundamental Interactions of Elementary Particles")

	Full	Full Semester # 1 (18 weeks)										Semester # 2 (17 weeks)										
DISCIPLINES	academic	Academ.	16	Classroom sessions							- utiu -	Academ.		Classroom sessions						Dan	outin o	
DISCIPLINES	load per	load pe	self- study	in	per week				Reporting		load per	self-	1	per week					кер	orting		
	year	semester		total	in total	lectures	seminars	lab	nedia	test	exam	semester	study	in total	in total	in total lectures seminars lab ne			nedia	test	exam	
Inter-faculty elective courses	72	36	18	18	1	1				test		36	19	17	1	1				test		
History and methodology of physics	72											72	38	34	2	2					exam	
"Foreign language"																						
Foreign language for professional communication	180	72	36	36	2		2			test		108	74	34	2		2				exam	
"Modern natural science"																						
Modern problems of physics: Quantum collision theory, K.A.Kouzakov (semester # 1), Interaction of partcles and radiation with matter, K.A.Kouzakov (semester # 2)	72	72	36	36	2	1	1			test												
The elective part																						
Special physics workshop, K.A.Kouzakov and A.I.Studenikin	216	108								test*		108								test*		
Disciplines of master's programs: Introduction to neutrino physics (Part 1), A.I.Studenikin (semester # 1), Introduction to neutrino physics (Part 2), A.I.Studenikin (semester # 2)	180	72	36	36	2	1	1				exam	108	74	34	2	1	1				exam	
Disciplines of master's program: Quantum field theory (Part 1), V.Ch.Zhukovsky (semester # 1); Quantum field theory (Part 2), V.Ch.Zhukovsky (semester # 2)	180	72	36	36	2	1	1				exam	108	74	34	2	1	1				exam	
Disciplines of master's program: Theory of fundamental hadron interactions, A.V.Borisov (semester # 1); Introduction to group theory, I.P.Volobuev (semester # 2)	144	72	36	36	2	1	1			test		72	38	34	2	1	1			test		
Disciplines of master's programs: Standard Model and its extensions, E.E.Boos (semester # 2)	72											72	38	34	2	1	1			test		
Disciplines of master's programs of choice: Machine learning for data processing, A.P.Kryukov; Data analysis in astroparticle physics, G.I.Rubtsov (semester # 1); Quantum field theory in curved spacetime, Yu.V.Grats; Modern gravity (Part 1), D.V.Galtsov (semester # 2)	144	72	36	36	2	1	1				exam	72	38	34	2	1	1				exam	

УАП и ОУП МГУ НИВЦ МГУ АИС "Учебный план"

	Full	Semester # 1 (18 weeks) Semester # 2 (17 weeks)																			
DISCIPLINES	academic	Academ.	self-	Classroom sessions						Reporting		Academ.	self-	Classroom sessions						Ren	Reporting
	load per	load per		in	per week					Reporting		load per	1 .	in total	per week				Reporting		
	year	semester		total	in total	lectures	seminars	lab	nedia	test	exam	semester	study	III totai	in total	lectures	seminars	lab	nedia	test	exam
Disciplines of master's programs of choice:																					
Particle interactions in external fields, A.																					
I.Studenikin, Quantum field theory under finite																					
temperature, V.Ch.Zhukovsky (semester # 1);	144	72	36	36	2	1	1				exam	72	38	34	2			2		test	
Neutrino mass generation models,																					
K.L.Stankevich, Supersymmetry (Part 1),																					
A.E.Kazantsev (semester # 2)																					
Research practice	576	360	360	until 29.12. 17 weeks						test		216	216	until 31	.05. 16 v	veeks				test	
Research work	108	108	108		until 29.12. 17 weeks					test											
Total	2160	1116	738	270	15	7	8			7	4	1044	647	289	17	8	7	2		6	3

^{*}test with score

Dean of the Faculty of Physics Professor