

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 03.03.02 Physics

Educational Programme "Physics"

St. Petersburg School of Mathematics, Physics and Computer
Science, HSE, HSE - Saint Petersburg

2 nd, 2021/2022 academic year

APPROVED by
Vice RectorROSHCHIN Y.S.
13.04.2021

Length of Programme: 4 years

Years of Study: 2020/2021 - 2023/2024

Mode of Study: Full Time

Degree: Bachelor's degree

Number of Students: 22

Number of Groups: 1

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
1	Students' research seminar	C	департамент физики	6	228	66	14	16	20	16A	
	Degree Programme			60	2 508	1 277	322	322	354	279	
	Major			50	1 900	866	220	222	226	198	
	Core Professional Block (Major)			44	1 672	800	206	206	206	182	
	Subject Areas			44	1 672	800	206	206	206	182	
	Mathematics			16	608	394	116	112	90	76	
1	Differential Equations	C	департамент информатики	3	114	76		76A			
2	Linear Algebra	C	департамент информатики	3	114	76	40A	36A			
3	Mathematical Physics	C	департамент физики	4	152	90			90A		
4	Calculus	C	департамент информатики	3	114	76	76A				
5	Theory of Complex Functions	C	департамент физики	3	114	76				76A	
	General Physics			18	684	184	46	46	46	46	
1	Optics	C	департамент физики	9	342	92			46A	46A	
2	Thermodynamics and Molecular Physics	C	департамент физики	9	342	92	46A	46A			
	Theoretical Physics			10	380	222	44	48	70	60	
1	Analytical Mechanics	C	департамент физики	4	152	92	44	48A			
2	Mechanics of liquids and gases	C	департамент физики	2	76	38			20	18A	
3	Field Theory	C	департамент физики	4	152	92			50	42A	Online Course
	Elective Professional Block (Major)			6	228	66	14	16	20	16	
	Научно-исследовательский семинар (НИС)			6	228	66	14	16	20	16	
1	Students' research seminar	C	департамент физики	6	228	66	14	16	20	16A	
	Minor			10	380	120	28	32	32	28	
1	Minor	E		10	380	120	28	32A	32	28A	
	English				228	107	32	28	44	3	
	Optional Courses				228	104	32	28	44		

1	English	O		6	228	104	32	28A	44		Credits only to the cumulative rating
Examinations						3				3	
1	Independent English Language Test	C	центр поддержки и мониторинга образовательных программ			3				3A	Foreign language
General Courses						184	42	40	52	50	
Core General Courses						184	42	40	52	50	
1	Physical Training	C	Department of Physical Training			184	42	40A	52	50A	Online Course

Academic Supervisor SHENDEROVICH I.E. 30.03.2021

Dean OMELCHENKO A.V. 30.03.2021

Deputy Director CHICHERINA N.V. 02.04.2021

Head of Degree Programmes Development Office MAMONOVA M.A. 12.04.2021

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O