



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 03.03.02 Physics

Educational Programme "Physics"

Specializations: "Quantum Field Theory", "Solid State Physics"

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

1 st, 2023/2024 academic year

APPROVED

23.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
Degree Programme				60,00	2 480	1 116	276	194	342	304	
Data Culture				3,00	114	36			18	18	
1	Introduction to Python for Data Science	C	Informatics Department	3,00	114	32			16	16A	Online Course
2	Independent Programming Test. Intermediate	C	отдел развития цифровых компетенций			2				2A	Online Course
3	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course
Major				50,00	1 900	762	174	154	236	198	
Core Professional Block (Major)				39,00	1 482	726	174	154	216	182	
1	Linear Algebra	C	Informatics Department	6,00	228	136			72A	64A	
2	Calculus 1	C	Informatics Department	10,00	380	196	42	36A	70	48A	
3	Mathematical Methods in Physics	C	Department of Physics (at HSE University in St.Petersburg)	6,00	228	104	56	48A			
4	Mechanics	C	Department of Physics (at HSE University in St.Petersburg)	9,00	342	146	76A	70A			
5	Electricity and Magnetism	C	Department of Physics (at HSE University in St.Petersburg)	8,00	304	144			74A	70A	
Elective Professional Block (Major)				11,00	418	36			20	16	
Research seminar				11,00	418	36			20	16	
1	Research Seminar	C	Department of Physics (at HSE University in St.Petersburg)	11,00	418	36			20	16A	
English						2				2	

Optional Courses											
1	English	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
Examinations											
						2				2	
1	English Language Integrative Exam	C	Department of Foreign Languages			2				2A	
General Courses				7,00	466	316	102	40	88	86	
Optional General Courses				6,00	228	126	54		36	36	
1	Russian History	C	School of History	4,00	152	72			36	36A	Online Course
2	Foundations of Russian Statehood	C	School of History	2,00	76	54	54A				
Core General Courses				1,00	238	190	48	40	52	50	
1	Safe Living Basics	C	отдел развития образовательных программ	1,00	38	6	6A				Online Course
2	Physical Training	C	Department of Physical Training		200	184	42	40A	52	50A	Online Course

Curriculum agreed:

Academic Supervisor	SHENDEROVICH I.E.	19.05.2023
Dean		19.05.2023
Deputy Director	KUZMIN P.V.	19.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	22.05.2023

* Subject type:

Compulsory course
 Elective course
 Optional course

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