



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, 2022/2023 academic year

APPROVED
 18.05.2022
 Vice Rector
 ROSHCHIN S.Y.
 Signed with EDS

Length of Programme: 4 years
 Years of Study: 2022/2023 - 2025/2026
 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	1 024	240	214	297	273	
Data Culture				3,00	114	18	4	4	5	5	
1	Introduction to Python for Data Science	C	Informatics Department	3,00	114	12	4	4	2A	2A	Online Course
2	Independent Programming Test. Intermediate	C	Center for Support and Monitoring of Degree Programs			3				3A	
3	Independent Digital Literacy Test	C	Center for Support and Monitoring of Degree Programs			3			3A		
Major				48,00	1 824	754	174	154	226	200	
Core Professional Block (Major)				40,00	1 520	718	174	154	206	184	
1	Linear Algebra	C	Informatics Department	6,00	228	136			72A	64A	
2	Calculus	C	Informatics Department	8,00	304	188	42A	36A	60A	50A	
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)	10,00	380	146	76A	70A			
5	Electricity and Magnetism	C	Department of Physics (at HSE University in St.Petersburg)	10,00	380	144			74A	70A	
Elective Professional Block (Major)				8,00	304	36			20	16	
Научно-исследовательский семинар (НИС)				8,00	304	36			20	16	

1	Students' research seminar	C	Department of Physics (at HSE University in St.Petersburg)	8,00	304	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			9,00	542	250	62	56	66	66	
	Optional General Courses			8,00	304	60	14	16	14	16	
1	Legal Literacy	C	департамент права цифровых технологий и биоправа	4,00	152	30			20	10A	Online Course
2	Экономика	C	Department of Theoretical Economics	4,00	152	30	14	16A			Online Course
	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.	12.05.2022
Dean		12.05.2022
Deputy Director	KUZMIN P.V.	13.05.2022
Head of Degree Programmes Development Office	LEPESHKIN I.A.	17.05.2022

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O