



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

2 nd, 2023/2024 academic year

APPROVED

27.04.2023

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	2 442	882	284	252	244	218	
Data Culture						4					
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
Major				49,00	1 862	694	214	180	160	140	
Core Professional Block (Major)				44,00	1 672	660	206	172	150	132	
1	Analytical Mechanics	C	Department of Physics (at HSE University in St.Petersburg)	4,00	152	76	40	36A			
2	Differential Equations	C	Informatics Department	3,00	114	52		52A			
3	Linear Algebra	C	Informatics Department	3,00	114	72	36A	36A			
4	Mathematical Physics	C	Department of Physics (at HSE University in St.Petersburg)	5,00	190	68			36A	32A	
5	Calculus	C	Informatics Department	3,00	114	76	76A				
6	Optics	C	Department of Physics (at HSE University in St.Petersburg)	9,00	342	78			42A	36A	
7	Field Theory	C	Department of Physics (at HSE University in St.Petersburg)	4,00	152	68			36	32A	
8	Theory of Complex Functions	C	Department of Physics (at HSE University in St.Petersburg)	4,00	152	68			36	32A	

9	Thermodynamics and Molecular Physics	C	Department of Physics (at HSE University in St.Petersburg)	9,00	342	102	54A	48A			
Elective Professional Block (Major)				5,00	190	34	8	8	10	8	
Научно-исследовательский семинар (НИС)				5,00	190	34	8	8	10	8	
1	Students' research seminar	C	Department of Physics (at HSE University in St.Petersburg)	5,00	190	34	8	8	10	8A	
Minor				10,00	380		28	32	32	28	
1	Minor	E		10,00	380	120	28	32A	32	28A	
English											
Optional Courses											
1	English	O		6,00	228	104	28	32	44A		Foreign language, Credits only to the cumulative rating
General Courses				1,00	200	184	42	40	52	50	
Core General Courses				1,00	200	184	42	40	52	50	
1	Physical Training	C	Department of Physical Training	1,00	200	184	42	40A	52	50A	Online Course

Curriculum agreed:

Academic Supervisor	SHENDEROVICH I.E.	10.04.2023
Dean		10.04.2023
Deputy Director	KUZMIN P.V.	10.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	26.04.2023

* Subject type:

Compulsory course
 Elective course
 Optional course

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