



National Research University Higher School of Economics (HSE)

Curriculum
Field of study 03.03.02 Physics
Educational Programme "Physics"

Specializations: "Condensed Matter Physics", "Low Temperature Physics", "Nanoelectronics and Photonics", "Quantum Optics and Nanophotonics", "Quantum Technologies", "Space Physics", "The Teaching of Modern Physics", "Theoretical Physics"

Implementing unit: Faculty of Physics, HSE - Moscow
1 st, 2025/2026 academic year

APPROVED
26.05.2025
Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2025/2026 - 2028/2029

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
	Degree Programme				60,00	2 480	1 034	247	217	288	282	
	Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций				2			2A		Online Course
	Major				43,00	1 634	758	170	162	216	210	
	Core Professional Block (Major)				43,00	1 634	758	170	162	216	210	
1	Analytical Mechanics	C	Faculty of Physics		4,00	152	84			42	42A	
2	Analytical Approximation Methods	C	Faculty of Physics		3,00	114	84			42	42A	
3	Differential Equations	C	Faculty of Mathematics		4,00	152	84			42	42A	
4	Computer Science	C	Faculty of Physics		3,00	114	32	32A				Online Course
5	Linear Algebra	C	Faculty of Mathematics		4,00	152	64	32	32A			
6	Calculus	C	Faculty of Mathematics		10,00	380	152	32	32A	44	44A	
7	Mechanics	C	Faculty of Physics		4,00	152	86	42	44A			
8	An Independent Examination of Mathematical Literacy	C	Faculty of Physics				2			2A		
9	Introduction into Python	C	Faculty of Physics		3,00	114	22		22A			
10	Electricity and Magnetism	C	Faculty of Physics		4,00	152	84			44	40A	
11	Elements of Mathematical Methods of Physics	C	Faculty of Physics		4,00	152	64	32	32A			
	General Courses				7,00	466	264	75	53	68	68	
	Optional General Courses				6,00	228	102	38	16	24	24	
1	Russian History	C	School of History		4,00	152	76	12	16A	24	24A	Online Course
2	Foundations of Russian Statehood	C	School of History		2,00	76	26	26A				Online Course
	Core General Courses				1,00	238	162	37	37	44	44	
1	Safe Living Basics	C	Проектно-учебная лаборатория «Бизнес-инкубатор Высшей школы экономики»		1,00	38	18	9	9A			Online Course

2	Physical Training	C	Department of Physical Training			200	144	28	28	44	44A	
	Internship				10,00	380	8	2	2	2	2	
	Fixed				10,00	380	8	2	2	2	2	
1	Laboratory Work on Mechanics	C		F	4,00	152	2		2A			
2	Laboratory Work on Electricity and Magnetism	C		F	4,00	152	2				2A	
3	Educational Internship (Introductory Training)	C		F	2,00	76	4	2		2A		
	Language and Communication						2				2	
	Optional Courses											
1	English Language (Offered in a Foreign Language)	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	School of Foreign Languages				2				2A	Foreign language

Curriculum agreed:

Academic Supervisor	Кунцевич А.Ю.	16.04.2025
Dean	TRUNIN M.R.	16.04.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	26.05.2025

* Subject type:

Compulsory course

C

Optional course

O

Period of execution:

Fixed

F