



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.02 Applied Mathematics and Information Science

Educational Programme "Data Science and Business Analytics"

Specializations: "Data Analysis in Applied Research", "Data Science in Business", "Data Science in Finance"

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

APPROVED

06.06.2025

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	1 306	247	271	378	410	
	Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций				2			2A		Online Course, Foreign language
	Major				41,00	1 558	726	142	142	182	260	
	Core Professional Block (Major)				41,00	1 558	726	142	142	182	260	
1	Introduction to Python for Data Science	C	Department of Big Data and Information Retrieval		4,00	152	60				60A	Foreign language
2	Algebra	C	Department of Big Data and Information Retrieval		3,00	114	40				40A	Foreign language
3	Algorithms and Data Structures 1	C	Department of Big Data and Information Retrieval		3,00	114	80				80A	Foreign language
4	Discrete Mathematics	C	Department of Big Data and Information Retrieval		7,00	266	102	30A	30	42A		Foreign language
5	Linear Algebra and Geometry	C	Department of Big Data and Information Retrieval		9,00	342	136	28	28A	40	40A	Foreign language
6	Calculus	C	Department of Big Data and Information Retrieval		9,00	342	136	28	28A	40	40A	Foreign language
7	C++ Programming Language	C	Department of Big Data and Information Retrieval		6,00	228	172	56A	56	60A		Foreign language
	General Courses				10,00	580	304	49	73	114	68	
	Optional General Courses				9,00	342	142	12	36	70	24	
1	Russian History	C	School of History		4,00	152	76	12	16A	24	24A	Online Course, Foreign language
2	Foundations of Russian Statehood	C	School of History		2,00	76	26			26A		Online Course, Foreign language
3	Economics	C	Department of Big Data and Information Retrieval		3,00	114	40		20	20A		Online Course, Foreign language
	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, Foreign language
2	Physical Training	C	Department of Physical Training			200	144	28	28	44	44A	Foreign language
Language and Communication					9,00	342	274	56	56	80	82	
Examinations					9,00	342	274	56	56	80	82	
1	English Language	C	Department of Big Data and Information Retrieval		9,00	342	272	56	56A	80	80A	Foreign language
2	Independent English Exam	C	School of Foreign Languages				2				2A	Foreign language

Curriculum agreed:

Academic Supervisor	Вознесенская Т.В.	23.05.2025
Dean	ARZHANTSEV I.V.	27.05.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	06.06.2025

* Subject type:

Compulsory course

C

Elective course

E