



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 Natural Sciences", "Data Science in Business", "Data Science in Finance"

Implementing unit: Faculty of Computer Science, HSE - Moscow
1 st, 2024/2025 academic year

APPROVED

19.06.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2024/2025 - 2027/2028

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	1 192	259	283	376	330	
Data Culture						2			2		
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2			2A		Online Course, Foreign language
Major				40,00	1 520	612	154	154	180	180	
Core Professional Block (Major)				40,00	1 520	612	126	126	180	180	
Core Professional Block (Major)				40,00	1 520	612	126	126	180	180	
1	Algebra	C	Department of Big Data and Information Retrieval	3,00	114	40				40A	Foreign language
2	Discrete Mathematics	C	Department of Big Data and Information Retrieval	7,00	266	96	28A	28	40A		Foreign language
3	Linear Algebra and Geometry	C	Department of Big Data and Information Retrieval	10,00	380	136	28	28A	40	40A	Foreign language
4	Calculus	C	Department of Big Data and Information Retrieval	10,00	380	136	28	28A	40	40A	Foreign language
5	C++ Programming Language	C	Department of Big Data and Information Retrieval	6,00	228	120			60	60A	Foreign language
6	Python Programming	C	Department of Big Data and Information Retrieval	4,00	152	84	42	42A			Foreign language
English				10,00	380	274	56	56	80	82	
Examinations				10,00	380	274	56	56	80	82	
1	English Language	C	Department of Big Data and Information Retrieval	10,00	380	272	56	56A	80	80A	Foreign language
2	Independent English Exam	C	School of Foreign Languages			2				2A	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	центр поддержки студенческих инициатив	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

Curriculum agreed:

Academic Supervisor	VOZNESENSKAYA T.V.	17.06.2024
Dean	ARZHANTSEV I.V.	17.06.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	19.06.2024

* Subject type:

Compulsory course

C

Elective course

E