



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, 2023/2024 academic year

APPROVED

21.07.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

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	1 173	304	232	316	321	
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	612	126	126	180	180	
Core Professional Block (Major)				41,00	1 558	612	126	126	180	180	
Core Professional Block (Major)				41,00	1 558	612	126	126	180	180	
1	Algebra	C	Department of Big Data and Information Retrieval	4,00	152	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	275	56	56	80	83	
Examinations				10,00	380	275	56	56	80	83	
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			3				3A	Foreign language
General Courses				9,00	542	284	122	50	56	56	
Optional General Courses				8,00	304	122	68	14	20	20	

1	Foundations of Russian Statehood	C	School of History	2,00	76	54			54A		Foreign language
2	Law	C	Department of Big Data and Information Retrieval	3,00	114	28	14	14A			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	54	36	36	36	
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	18A				Online Course, Foreign language
2	Physical Training	C	Department of Physical Training		200	144	36	36	36	36A	Foreign language

Curriculum agreed:

Academic Supervisor VOZNESENSKAYA T.V. 19.07.2023

Dean ARZHANTSEV I.V. 19.07.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 21.07.2023

* Subject type:

Compulsory course

C

Elective course

E