



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"

Implementing unit: Faculty of Computer Science, HSE - Moscow

2 nd, 2023/2024 academic year

APPROVED

05.05.2023

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	1 100	232	246	356	262	
Data Culture						6				2	
1	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2		2A			Foreign language
2	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	Foreign language
3	Independent Programming Test. Advanced Level	C	отдел развития цифровых компетенций			2				2A	Online Course, Foreign language
Major				43,00	1 634	824	168	182	280	194	
Core Professional Block (Major)				31,00	1 178	632	140	154	200	138	
1	Algorithms and Data Structures	C	Department of Big Data and Information Retrieval	8,00	304	232	56A	56	60	60A	Foreign language
2	Computer Architecture and Operating Systems	C	Department of Big Data and Information Retrieval	5,00	190	136			80	56A	Foreign language
3	Discrete Mathematics 2	C	Department of Big Data and Information Retrieval	5,00	190	56	28	28A			Foreign language
4	Calculus 2	C	Department of Big Data and Information Retrieval	5,00	190	56	28	28A			Foreign language
5	Probability Theory and Mathematical Statistics	C	Department of Big Data and Information Retrieval	8,00	304	152	28	42A	60	22A	Online Course, Foreign language
Elective Professional Block (Major)				12,00	456	192	28	28	80	56	
Elective Professional Block (Major)				12,00	456	192	28	28	80	56	
1	Differential Equations	C	Department of Big Data and Information Retrieval	4,00	152	68			40	28A	Foreign language
2	Introduction to Micro and Macroeconomics	C	Department of Big Data and Information Retrieval	8,00	304	124	28	28A	40	28A	Foreign language
Minor				8,00	304	124	28	28	40	28	

1	Business and Management in Global Context	C	Department of Big Data and Information Retrieval	8,00	304	124	28	28	40A	28A	Foreign language
General Courses				1,00	200	144	36	36	36	36	
Core General Courses				1,00	200	144	36	36	36	36	
1	Physical Training	C	Department of Physical Training	1,00	200	144	36	36	36	36A	Foreign language
Internship				8,00	304	2				2	
Project Internship				5,00	190	2				2	
1	Term project 1	C		5,00	190	2				2A	Foreign language
Professional Internship				3,00	114						
1	Educational Internship	C		3,00	114						Foreign language

Curriculum agreed:

Academic Supervisor	VOZNESENSKAYA T.V.	21.04.2023
Dean	ARZHANTSEV I.V.	28.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	04.05.2023

* Subject type:

Compulsory course
Elective course

C
E