



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics

Educational Programme "Master of Data Science"

Trajectories: "Master of Data Science"

Implementing unit: Faculty of Computer Science, HSE - Moscow

1 st, 2025/2026 academic year

APPROVED

15.04.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2025/2026 - 2026/2027

Mode of Study: Full Time

Degree: Master's degree / MBA

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	2 280	326	54	90	90	92	
	Master of Data Science (Applied track)			60,00	2 280	326	54	90	90	92	
	Major			33,00	1 254	264	48	72	72	72	
1	Introduction to Python for Data Science	C	Department of Big Data and Information Retrieval	3,00	114	24		24A			
2	Data Bases and Data Warehouses	C	Department of Big Data and Information Retrieval	6,00	228	48			24	24A	
3	Introduction to Python	C	Department of Big Data and Information Retrieval	3,00	114	24	24A				
4	Discrete Mathematics	C	Department of Big Data and Information Retrieval	3,00	114	24		24A			
5	Linear Algebra	C	Department of Big Data and Information Retrieval	3,00	114	24	24A				
6	Calculus	C	Department of Big Data and Information Retrieval	3,00	114	24		24A			
7	Machine Learning	C	Department of Big Data and Information Retrieval	6,00	228	48			24	24A	
8	Probability Theory and Mathematical Statistics	C	Department of Big Data and Information Retrieval	6,00	228	48			24	24A	
	Key Seminars			15,00	570	60	6	18	18	18	
1	Research Seminar "Product Approach in Data Analytics"	C	Department of Big Data and Information Retrieval	9,00	342	36		12A	12	12A	
2	Mentor's Seminar	C	Department of Big Data and Information Retrieval	6,00	228	24	6	6A	6A	6A	
	Internship			12,00	456	2				2	
	Fixed			12,00	456	2				2	
1	Exploration Data Analysis Project	C		12,00	456	2				2A	

Curriculum agreed:

Academic Supervisor	Волощук П.В.	28.02.2025
Dean	ARZHANTSEV I.V.	03.03.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	14.04.2025

* Subject type:

Compulsory course

C