



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics

Educational Programme "Big Data Analytics"

Trajectories: "Big Data Analytics"

Implementing unit: Faculty of Computer Science, HSE - Moscow

1 st, 2025/2026 academic year

APPROVED

25.03.2025

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	450	88	60	156	146	
	Big Data Analytics (Applied track)			60,00	2 280	450	88	60	156	146	
	Major			39,00	1 482	428	84	56	150	138	
1	A/B testing: basics	C	Department of Big Data and Information Retrieval	3,00	114	40			40A		
2	A/B Testing: Advanced Course	C	Department of Big Data and Information Retrieval	3,00	114	28				28A	
3	SQL	C	Department of Big Data and Information Retrieval	3,00	114	40			40A		
4	Introduction to Machine Learning	C	Department of Big Data and Information Retrieval	3,00	114	40				40A	
5	Data Visualization	C	Department of Big Data and Information Retrieval	3,00	114	40				40A	
6	Modern Software Engineering Practices	C	Department of Big Data and Information Retrieval	3,00	114	28	28A				
7	Mathematics for Data Analysis	C	Department of Big Data and Information Retrieval	12,00	456	116	28	28A	30	30A	
8	Python Programming	C	Department of Big Data and Information Retrieval	6,00	228	56	28	28A			
9	Product development and product analytics	C	Department of Big Data and Information Retrieval	3,00	114	40			40A		
	Key Seminars			9,00	342	20	4	4	6	6	
1	Mentor's Seminar	C	Department of Big Data and Information Retrieval	9,00	342	20	4	4A	6	6A	
	Magolego			3,00	114						
1	All-university Pool MAGOLEGO Courses	C		3,00	114						
	Internship			9,00	342	2				2	

	Fixed			9,00	342	2				2	
1	Course Project	C		9,00	342	2				2A	

Curriculum agreed:

Academic Supervisor	Паточенко Е.А.	04.03.2025
Dean	ARZHANTSEV I.V.	04.03.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	04.03.2025

* Subject type:

Compulsory course

C