



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

2 nd, 2025/2026 academic year

APPROVED

25.03.2025

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2024/2025 - 2025/2026

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	
	<b>Degree Programme</b>			<b>60,00</b>	<b>2 280</b>	<b>438</b>	<b>140</b>	<b>152</b>	<b>142</b>	<b>4</b>	
	<b>Big Data Analytics (Applied track)</b>			<b>60,00</b>	<b>2 280</b>	<b>438</b>	<b>140</b>	<b>152</b>	<b>142</b>	<b>4</b>	
	<b>Major</b>			<b>30,00</b>	<b>1 140</b>	<b>304</b>	<b>112</b>	<b>124</b>	<b>68</b>		
1	A/B Testing: Advanced Course	C	Department of Big Data and Information Retrieval	3,00	114	28	28A				
2	Data Engineering for Analysts	C	Department of Big Data and Information Retrieval	3,00	114	40		40A			
3	Data Warehouse and Big Data Processing	C	Department of Big Data and Information Retrieval	3,00	114	28		28A			
4	MLOps	C	Department of Big Data and Information Retrieval	3,00	114	28		28A			
5	Machine Learning for Solving Analytics Problems	C	Department of Big Data and Information Retrieval	3,00	114	40			40A		
6	Machine Learning and Deep Learning Basics	C	Department of Big Data and Information Retrieval	6,00	228	56	28	28A			
7	Data Engineering Basics	C	Department of Big Data and Information Retrieval	3,00	114	28	28A				
8	Product Metrics	C	Department of Big Data and Information Retrieval	3,00	114	28	28A				
9	Theory and Practice of Online Experiments	C	Department of Big Data and Information Retrieval	3,00	114	28			28A		
	<b>Final State Certification (FSC)</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Final Qualification Paper	C		3,00	114	2				2A	
	<b>Key Seminars</b>			<b>6,00</b>	<b>228</b>	<b>128</b>	<b>28</b>	<b>28</b>	<b>72</b>		
1	Mentor's Seminar	C	Department of Big Data and Information Retrieval	6,00	228	128	28	28A	72A		
	<b>Magolego</b>			<b>6,00</b>	<b>228</b>						

1	All-university Pool MAGOLEGO Courses	E		6,00	228						
	<b>Internship</b>			<b>15,00</b>	<b>570</b>	<b>4</b>			<b>2</b>	<b>2</b>	
	<b>Research Internship</b>			<b>15,00</b>	<b>570</b>	<b>4</b>			<b>2</b>	<b>2</b>	
1	Preparation of Graduation Thesis	C		15,00	570	4			2	2A	

**Curriculum agreed:**

Academic Supervisor	Паточенко Е.А.	25.02.2025
Dean	ARZHANTSEV I.V.	28.02.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	04.03.2025

\* Subject type:

Compulsory course

Elective course

C

E