National Research University Higher School of Economics (HSE)

Curriculum
Field of study 09.04.04 Software Engineering
Educational Programme "Data Engineering"
Trajectories: "Data Engineering"
Implementing unit: Faculty of Computer Science, HSE - Moscow
2 nd, 2026/2027 academic year

APPROVED
28.04.2026
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	Period of execution	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
								1	2	3	4	
	Degree Programme				**60,00**	**2 280**	**286**	**94**	**116**	**72**	**4**	
	Data Engineering (Applied track)				**60,00**	**2 280**	**286**	**94**	**116**	**72**	**4**	
	Magolego				**6,00**	**228**						
1	All-university Pool MAGOLEGO Courses	E			6,00	228						
	Key Seminars				**6,00**	**228**	**68**	**24**	**24**	**20**		
1	Mentor's Seminar	C	Department of Big Data and Information Retrieval		6,00	228	68	24A	24	20A		
	Final State Certification (FSC)				**3,00**	**114**	**2**				**2**	
1	Final Qualification Paper	C			3,00	114	2				2A	
	Internship				**18,00**	**684**	**8**	**2**		**4**	**2**	
	Preparation of the Graduate Thesis				**15,00**	**570**	**4**			**2**	**2**	
1	Preparation of the Final Qualifying Work	C		F	15,00	570	4			2	2A	
	Free						**2**	**2**				
1	Work Placement	C		Fr			2	2A				
	Fixed				**3,00**	**114**	**2**			**2**		
1	"Data-Hackathon" Project	C		F	3,00	114	2			2A		
	Major				**27,00**	**1 026**	**208**	**68**	**92**	**48**		
1	BI Analytics and Data Visualization	C	Department of Big Data and Information Retrieval		3,00	114	24	24A				
2	DataOps	C	Department of Big Data and Information Retrieval		6,00	228	48		24	24A		
3	Java and Object Oriented Programming	C	Department of Big Data and Information Retrieval		6,00	228	48	24	24A			
4	Data Storage Systems	C	Department of Big Data and Information Retrieval		6,00	228	40	20	20A			
5	Distributed Big Data Processing Technologies	C	Department of Big Data and Information Retrieval		6,00	228	48		24	24A		

Curriculum agreed:

Academic Supervisor	Maslennikov D.I.	27.02.2026
Dean	ARZHANTSEV I.V.	27.02.2026
Head of Centre for Educational Model Design	LEPESHKIN I.A.	28.04.2026

* Subject type:

Compulsory course	C
Elective course	E

Period of execution:

Fixed	F
Free	Fr