

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics
Educational Programme "Applied Artificial Intelligence Models"
Trajectories: "Applied Artificial Intelligence Models"
Implementing unit: Tikhonov Moscow Institute of Electronics and
Mathematics, HSE - Moscow
1 st, 2025/2026 academic year

APPROVED 20.05.2025 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

								Allocation of Contact Hours				
Block Code	Course	Subject type	Department	Period of execution	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Programme				60,00	2 280	510	118	128	132	132	
	Applied Artificial Intelligence Models (Applied track)				60,00	2 280	510	118	128	132	132	
	Major				42,00	1 596	420	108	112	100	100	
	Disciplines of the Degree Programm				36,00	1 368	340	108	112	60	60	
1	Algorithms and Data Structures	С	Department of Applied Mathematics		6,00	228	60			32	28A	
2	Machine Learning	С	Department of Applied Mathematics		6,00	228	60	28	32A			
3	Industrial Programming in Python	С	Department of Applied Mathematics		6,00	228	60	32	28A			
4	Machine Learning Operations	С	Department of Applied Mathematics		6,00	228	60			28	32A	
5	Modern Natural Language Processing and Large Language Models	С	Department of Applied Mathematics		6,00	228	40	20	20A			
6	Advanced Programming in C++	С	Department of Applied Mathematics		6,00	228	60	28	32A			
	Elective Courses				6,00	228	80			40	40	
1	Information Retrieval	E	Department of Applied Mathematics		6,00	228	60			32	28A	
2	Stochastic Methods for Engineering Applications	E	Department of Applied Mathematics		6,00	228	80			40	40A	
	Key Seminars				10,00	380		10	16	32	30	
1	Applied Artificial Intelligence Models	С	Department of Applied Mathematics		4,00	152	68	10A	16	22	20A	
2	Project Seminar	С	Department of Applied Mathematics		6,00	228	20			10	10A	
	Magolego				3,00	114						
1	All-university Pool MAGOLEGO Courses	С			3,00	114						
	Internship				5,00	190	2				2	

	Free			5,00	190	2		2	
1	Project	C	Fr	5,00	190	2		2A	

Curriculum agreed:

Academic Supervisor Slastnikov S.A. 27.03.2025

Kovalenko D.G. 31.03.2025 Dean

Head of Centre for Educational Model Design LEPESHKIN I.A. 16.05.2025

* Subject type:

Compulsory course С Ε Elective course

Period of execution:

Fr Free