B

National Research University Higher School of Economics (HSE)

Curriculum	APPROVED
Field of study 11.04.02 Infocommunication Technologies and Systems	17.04.2024
Educational Programme "Artficial Intelligence Software and Hardware"	Vice Rector
Trajectories: "Artficial Intelligence Software and Hardware"	ROSHCHIN S.Y.
Implementing unit: Tikhonov Moscow Institute of Electronics and Mathematics, HSE - Moscow	Signed with EDS
1 st, 2024/2025 academic year	

Length of Programme: 2 years Years of Study: 2024/2025 - 2025/2026 Mode of Study: Full Time Degree: Master's degree / MBA

							Allocation of Contact Hours				
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Programme		•	60,00	2 280	438	64	94	154	126	
	Artficial Intelligence Software and Har	dware (Ap	oplied track)	60,00	2 280	438	64	94	154	126	
	Major			42,00	1 596	420	60	90	150	120	
	Elective Courses			6,00	228	60			30	30	
1	Assembler. Linux System Programming	E	School of Electronic Engineering	6,00	228	60			30	30A	
2	Development and Design of Element Base for Hardware and Software Complexes of Artificial Intelligence	E	School of Electronic Engineering	6,00	228	60			30	30A	
	Обязательные дисциплины прогр	аммы	•	36,00	1 368	360	60	90	120	90	
1	Architecture of Computing Systems and Neuroaccelerators	С	School of Electronic Engineering	6,00	228	60			30	30A	
2	Neural Networks and Machine Learning for Artificial Intelligence Systems	С	School of Electronic Engineering	6,00	228	60	30	30A			
3	Basics of the Statistical Theory of Signal Detection and Pattern Recognition in Artificial Intelligence	С	School of Electronic Engineering	6,00	228	60		30	30A		
4	Programming in C. Algorithms and Data Structures		School of Electronic Engineering	6,00	228	60	30	30A			
5	C++ Programming Language	С	School of Electronic Engineering	6,00	228	60			30	30A	
6	Digital Signal Processing for Artificial Intelligence Systems	С	School of Electronic Engineering	6,00	228	60			30	30A	

	Key Seminars			10,00	380	16	4	4	4	4	
1	Hardware and Software Systems of Artificial Intelligence (Mentor Seminar)	С	School of Electronic Engineering	10,00	380	16	4A	4	4	4A	
	Magolego			3,00	114						
1	All-university Pool MAGOLEGO Courses	E		3,00	114						
	Internship			5,00	190	2				2	
	Project Internship			5,00	190	2				2	
1	Project	С		5,00	190	2				2A	

## Curriculum agreed:

Academic Supervisor		03.04.2024
Dean	KROUK E.A.	05.04.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	17.04.2024

* Subject type:	
Compulsory course	С
Elective course	E