



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 37.04.01 Psychology

Educational Programme "Cognitive Sciences and Technologies: From Neuron to Cognition"

Trajectories: "Cognitive sciences and technologies: from neuron to cognition"

Implementing unit: Institute for Cognitive Neuroscience, HSE - Moscow

Years of Study: 2024/2025 - 2025/2026

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

APPROVED

10.06.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Block Code	Course	Subject type	Credits	Credits by Years		Planned Educational Programme Development Results
				1	2	
	Degree Programme		120,00	60,00	60,00	
	Cognitive sciences and technologies: from neuron to cognition (Research track)		120,00	60,00	60,00	
	Key Seminars		16,00	8,00	8,00	
	Research Seminar 1 Year		6,00	6,00		
1	Research Seminar "Cognitive Sciences" (offered in a foreign language)	C	6,00	6,00		GPC-2.PSY, GPC-3.PSY, PC-1, PC-2, PC-3, PC-6, UC-1, UC-4, UC-5, UC-6
	Mentor's Seminar		4,00	2,00	2,00	
1	Mentor's Seminar (offered in a foreign language)	C	4,00	2,00	2,00	UC-1
	Research Seminar 2 Year		6,00		6,00	
1	Research Seminar "Cognitive Sciences" 2 (offered in a foreign language)	E	6,00		6,00	GPC-2.PSY, GPC-3.PSY, PC-1, UC-1, UC-4, UC-5, UC-6
2	Research Seminar "Computational Sciences" (offered in a foreign language)	E	6,00		6,00	GPC-2.PSY, GPC-3.PSY, PC-1, PC-2, PC-3, PC-6, UC-1, UC-4, UC-5, UC-6
	Internship		20,00	4,00	16,00	
	Project Internship					
	Professional Internship					
	Research Internship		20,00	4,00	16,00	
1	Term paper (offered in a foreign language)	C	4,00	4,00		PC-1, PC-3, PC-5, PC-6, PC-7, PC-8
2	Theses Preparation (offered in a foreign language)	C	16,00		16,00	GPC-1.PSY, GPC-2.PSY, GPC-4.PSY, GPC-5.PSY, GPC-9.PSY, PC-1, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-9, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6

	Major		72,00	48,00	24,00	
	Compulsory Courses 1 Year		36,00	36,00		
1	Intro to Programming in Python (offered in a foreign language)	C	6,00	6,00		PC-5
2	Introduction to Cognitive Science (offered in a foreign language)	C	6,00	6,00		GPC-7.PSY, PC-1
3	Qualitative and Quantitative Research Methods in Psychology (offered in a foreign language)	C	6,00	6,00		GPC-10.PSY, GPC-3.PSY, GPC-5.PSY, GPC-6.PSY, PC-5, UC-1, UC-4, UC-5
4	Neuroscience (offered in a foreign language)	C	6,00	6,00		PC-5, UC-4
5	Theory and Methodology of Modern Psychology (offered in a foreign language)	C	6,00	6,00		GPC-10.PSY, GPC-3.PSY, GPC-5.PSY, GPC-8.PSY, PC-1, PC-5, UC-1, UC-4
6	Linear Algebra (offered in a foreign language)	C	6,00	6,00		GPC-3.PSY
	Elective Courses		6,00	6,00		
1	Some Topics of Calculus, Differential Equations and Nonlinear Dynamics (offered in a foreign language)	E	6,00	6,00		PC-3
2	Calculus (offered in a foreign language)	E	6,00	6,00		GPC-3.PSY
	Elective Courses		6,00	6,00		
1	Cognitive Neuroscience (offered in a foreign language)	E	3,00	3,00		GPC-3.PSY, GPC-8.PSY
2	Visual Perception and Attention (offered in a foreign language)	E	3,00	3,00		GPC-3.PSY, GPC-8.PSY, PC-6
3	Mathematical Aspects of EEG and MEG Based Neuroimaging (offered in a foreign language)	E	3,00	3,00		GPC-3.PSY, GPC-4.PSY, PC-5, PC-9
4	Applied Neuroscience (offered in a foreign language)	E	3,00	3,00		GPC-3.PSY, PC-6
	Compulsory Courses 2 Year		24,00		24,00	
1	Advanced Behavioural Genetics (offered in a foreign language)	C	6,00		6,00	GPC-2.PSY, GPC-7.PSY, PC-3, PC-5, PC-9, UC-1
2	Multimodal Neuroimaging Part 2 (offered in a foreign language)	C	6,00		6,00	GPC-1.PSY, GPC-3.PSY, GPC-4.PSY, GPC-7.PSY, PC-1, PC-3, PC-5, PC-6
3	Memory, Learning and Cognitive Development (offered in a foreign language)	C	6,00		6,00	GPC-2.PSY, GPC-5.PSY, PC-3, PC-4, PC-5, PC-9
4	Advanced Computational Neuroscience (offered in a foreign language)	C	6,00		6,00	GPC-2.PSY, GPC-3.PSY, PC-1, PC-5, UC-1, UC-2
	Magolego		9,00		9,00	
1	All-university Pool MAGOLEGO Courses (offered in a foreign language)	E	9,00		9,00	UC-6
	Final State Certification (FSC)		3,00		3,00	
1	Final Qualification Paper (offered in a foreign language)	C	3,00		3,00	PC-1, PC-2, PC-3, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6

Curriculum agreed:

Academic Supervisor

ZINCHENKO O.O.

06.06.2024

Dean

SHESTAKOVA A.N.

07.06.2024

Head of Centre for
Educational Model Design

LEPESHKIN I.A.

10.06.2024

* Subject type:

Compulsory course

C

Elective course

E