



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: 2023/2024 - 2024/2025

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

APPROVED

15.05.2023

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
	Research Seminar 2 Year		6,00		6,00	
1	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
2	Research Seminar "Cognitive Sciences" 2 (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
	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
	Internship		20,00	4,00	16,00	
	Research Internship		20,00	4,00	16,00	
1	Курсовая работа (offered in a foreign language)	C	4,00	4,00		GPC-1.PSY, GPC-2.PSY, GPC-3.PSY, PC-1, PC-3, PC-5, PC-6, PC-7, PC-8, UC-4, UC-5, UC-6
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	Introduction to Cognitive Science (offered in a foreign language)	C	6,00	6,00	GPC-7.PSY, PC-1
2	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
3	Neuroscience (offered in a foreign language)	C	6,00	6,00	PC-5, UC-4
4	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
5	Intro to Programming in Python (offered in a foreign language)	C	6,00	6,00	PC-5
6	Linear Algebra (offered in a foreign language)	C	6,00	6,00	GPC-3.PSY
	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	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
3	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, UC-1
4	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, UC-1, UC-4, UC-5
	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	Visual Perception and Attention (offered in a foreign language)	E	3,00	3,00	GPC-3.PSY, GPC-8.PSY, PC-6
2	Cognitive Neuroscience (offered in a foreign language)	E	3,00	3,00	GPC-3.PSY, GPC-8.PSY, PC-9
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
	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.	10.05.2023
Dean	SHESTAKOVA A.N.	12.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	14.05.2023

\* Subject type:

Compulsory course      C

Elective course        E