



National Research University Higher School of Economics (HSE)

Curriculum

APPROVED

Field of study 01.03.02 Applied Mathematics and Information
Science,

38.03.04 Public Administration,

37.03.01 Psychology,

41.03.04 Political Science,

39.03.01 Sociology

25.09.2025

Educational Programme "Computational Social Sciences"
Specializations: "Computational Analytics in State Governance",
"Computational Analytics in State Governance with Advanced
Curriculum in Applied Mathematics and Information Science",
"Computational Political Science", "Computational Political Science
with Advanced Curriculum in Applied Mathematics and Information
Science", "Computational Psychology", "Computational Psychology
with Advanced Curriculum in Applied Mathematics and Information
Science", "Computational Sociology", "Computational Sociology with
Advanced Curriculum in Applied Mathematics and Information
Science"

Vice Rector

ROSHCHIN S.Y.

Implementing unit: Faculty of Social Sciences, HSE - Moscow
3 rd, 2025/2026 academic year

Signed with EDS

Length of Programme: 4 years

Years of Study: 2023/2024 - 2026/2027

Mode of Study: Full Time

Degree: Bachelor's degree

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	666	169	155	177	205	
	Data Culture				9,00	342	100	28	2	36	34	
1	External Examinations on Digital Skills. Final Level	C	отдел развития цифровых компетенций				2		2A			
2	Data Science, AI and Generative Models Independent Test. Advanced Level	C	отдел развития цифровых компетенций		1,00	38	2				2A	Online Course
3	Regression analysis of socio-economic processes	C	Department of Higher Mathematics		8,00	304	96	28A		36	32A	Foreign language
	Major				29,00	1 102	372	102	114	80	116	
	Core Professional Block (Major)				14,00	532	192	56	56	40	40	
1	Additional Chapters of Probability Theory and Statistics	C	Department of Psychology		4,00	152	56	28	28A			
2	Machine Learning 1	C	Department of Big Data and Information Retrieval		6,00	228	56	28	28A			Online Course
3	1019176	C	Department of Psychology		4,00	152	80			40	40A	
	Elective Professional Block (Major)				15,00	570	180	46	58	40	76	
	Дисциплины специализаций				15,00	570	180	46	58	40	76	
	Computational Analytics in State Governance				15,00	570	180	46	58	40	36	

	Compulsory Disciplines of Computational Analytics in State Governance				15,00	570	180	46	58	40	36	
1	Public and Municipal Service	C	School of Politics and Governance		3,00	114	20				20A	
2	Methods of Decision-Making	C	Department of Mathematics		4,00	152	52	22	30A			Online Course, Foreign language
3	Socio-Economic Geography of Russia	C	Faculty of Geography and Geoinformation Technology		4,00	152	56			40	16A	
4	Economic and Social Statistics	C	Department of Statistics and Data Analysis		4,00	152	52	24	28A			
	Computational Analytics in State Governance with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	180	46	58	40	36	
	Compulsory Disciplines of Computational Analytics in State Governance with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	180	46	58	40	36	
1	Public and Municipal Service	C	School of Politics and Governance		3,00	114	20				20A	
2	Methods of Decision-Making	C	Department of Mathematics		4,00	152	52	22	30A			Online Course, Foreign language
3	Socio-Economic Geography of Russia	C	Faculty of Geography and Geoinformation Technology		4,00	152	56			40	16A	
4	Economic and Social Statistics	C	Department of Statistics and Data Analysis		4,00	152	52	24	28A			
	Computational Political Science				15,00	570	250	58	76	40	76	
	Compulsory Disciplines of Computational Political Science				15,00	570	250	58	76	40	76	
1	World Politics and International Relations	C	Department of Political Science and International Affairs		5,00	190	80			40	40A	Foreign language
2	Political Regional Studies	C	School of Politics and Governance		4,00	152	60	26	34A			
3	Political Sociology	C	Department of Sociology		3,00	114	74	32	42A			
4	The Technologies of Symbolic Policy	C	School of Politics and Governance		3,00	114	36				36A	
	Computational Political Science with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	250	58	76	40	76	
	Elective Disciplines of Computational Political Science with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	250	58	76	40	76	
1	World Politics and International Relations	C	Department of Political Science and International Affairs		5,00	190	80			40	40A	Foreign language
2	Political Regional Studies	C	School of Politics and Governance		4,00	152	60	26	34A			
3	Political Sociology	C	Department of Sociology		3,00	114	74	32	42A			
4	The Technologies of Symbolic Policy	C	School of Politics and Governance		3,00	114	36				36A	
	Computational Psychology				15,00	570	204	30	6	88	80	
	Elective Courses in the 3Rd Year Computational Psychology				3,00	114	30	30				
1	Applied Cognitive Science	E	Department of Psychology		3,00	114	28	28A				Foreign language
2	Psychology of Creativity	E	Department of Psychology		3,00	114	30	30A				
3	Psychology of Multilingualism	E	Department of Psychology		3,00	114	36	36A				Foreign language
4	Psychology of Human Resource Management	E	Department of Psychology		3,00	114	36	36A				

5	Theories and Models of Modern Social Psychology	E	Department of Psychology		3,00	114	30	30A				
	Compulsory Disciplines of Computational Psychology				12,00	456	174		6	88	80	
1	Psychology of Personality and Individual Differences	C	Department of Psychology		4,00	152	6		6A			Online Course
2	Developmental Psychology	C	Department of Psychology		4,00	152	84			44	40A	Online Course
3	Social Psychology	C	Department of Psychology		4,00	152	84			44	40A	Online Course
	Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	204	30	6	88	80	
	Elective Courses. Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science				3,00	114	30	30				
1	Applied Cognitive Science	E	Department of Psychology		3,00	114	28	28A				Foreign language
2	Psychology of Creativity	E	Department of Psychology		3,00	114	30	30A				
3	Psychology of Multilingualism	E	Department of Psychology		3,00	114	36	36A				Foreign language
4	Psychology of Human Resource Management	E	Department of Psychology		3,00	114	36	36A				
5	Theories and Models of Modern Social Psychology	E	Department of Psychology		3,00	114	30	30A				
	Compulsory Disciplines of Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science				12,00	456	174		6	88	80	
1	Psychology of Personality and Individual Differences	C	Department of Psychology		4,00	152	6		6A			Online Course
2	Developmental Psychology	C	Department of Psychology		4,00	152	84			44	40A	Online Course
3	Social Psychology	C	Department of Psychology		4,00	152	84			44	40A	Online Course
	Computational Sociology				15,00	570	250	76	34	70	70	
	Compulsory Disciplines of Computational Sociology				15,00	570	250	76	34	70	70	
1	Qualitative Methods of Sociological Research	C	Department of Sociology		4,00	152	84	34	34A	16A		
2	Sociological Theory	C	Department of Sociology		5,00	190	92			54	38A	
3	Sociology of Organizations	C	Department of Sociology		3,00	114	32				32A	
4	Sociology of Consumption	C	Department of Sociology		3,00	114	42	42A				
	Computational Sociology with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	250	76	34	70	70	
	Elective Disciplines of Computational Sociology with Advanced Curriculum in Applied Mathematics and Information Science				15,00	570	250	76	34	70	70	
1	Qualitative Methods of Sociological Research	C	Department of Sociology		4,00	152	84	34	34A	16A		
2	Sociological Theory	C	Department of Sociology		5,00	190	92			54	38A	
3	Sociology of Organizations	C	Department of Sociology		3,00	114	32				32A	
4	Sociology of Consumption	C	Department of Sociology		3,00	114	42	42A				
	Disciplines of specializations with Advanced Curriculum in Applied Mathematics and Information Science				12,00	456	152		28	60	64	
1	Introduction to Deep Learning	E	Department of Big Data and Information Retrieval		4,00	152	48		28	20A		Online Course, Foreign language
2	Machine Learning 2	E	Department of Big Data and Information Retrieval		6,00	228	80			40	40A	
3	Advanced Deep Learning Methods	E	Department of Psychology		2,00	76	24				24A	Online Course
	Minor				10,00	380	152	38	38	38	38	
1	Minor	E			10,00	380	152	38	38A	38	38A	
	English						2			2		
	Examinations						2			2		

1	Independent English Exam	C	School of Foreign Languages				2			2A		Foreign language
	General Courses				4,00	152	30			20	10	
	Optional General Courses				4,00	152	30			20	10	
1	Legal Literacy	E	департамент теории права и сравнительного правоведения		4,00	152	30			20	10A	Online Course
2	Philosophy	E	Школа философии и культурологии		4,00	152	30			16	14A	Online Course
	Internship				8,00	304	10	1	1	1	7	
	Research Internship				6,00	228	6				6	
1	Term Paper	C		F	6,00	228	6				6A	
	Project Internship				2,00	76	4	1	1	1	1	
1	Project	E		Fr	2,00	76	4	1	1	1	1A	

Curriculum agreed:

Academic Supervisor	Седашов Е.А.	19.09.2025
Dean	Stukal D.K.	19.09.2025
Head of Centre for Educational Model Design	LEPESHKIN I.A.	24.09.2025

* Subject type:

Compulsory course
Elective course
Optional course

C
E
O

Period of execution:

Fixed
Free

F
Fr