National Research University Higher School of Economics (HSE)

Curriculum

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

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"

Implementing unit: Faculty of Social Sciences, HSE - Moscow
3 rd, 2024/2025 academic year

Length of Programme: 4 years
Years of Study: 2022/2023 - 2025/2026
Mode of Study: Full Time
Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
	Degree Progamme			**60,00**	**2 280**	**602**	**141**	**159**	**171**	**169**	
	Data Culture			**11,00**	**418**	**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	10,00	380	96	28A		36	32A	
	Major			**27,00**	**1 026**	**308**	**74**	**118**	**80**	**76**	
	Core Professional Block (Major)			**6,00**	**228**	**56**	**28**	**28**			
1	Machine Learning 1	C	Department of Big Data and Information Retrieval	6,00	228	56	28	28A			Online Course
	Elective Professional Block (Major)			**21,00**	**798**	**252**	**46**	**90**	**80**	**76**	
	Elective Courses			**6,00**	**228**	**72**		**32**	**40**		

№	Discipline		Department								Notes
1	Time Series Analysis	E	Department of Statistics and Data Analysis	6,00	228	64			28	36A	
2	Neuroscience	E	Institute for Cognitive Neuroscience	6,00	228	72			32	40A	Foreign language
	Дисциплины специализаций			**15,00**	**570**	**180**					
	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	4. 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**	
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	4. 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**	**218**	**58**	**76**	**24**	**60**	
	Compulsory Disciplines of Computational Political Science			**15,00**	**570**	**218**	**58**	**76**	**24**	**60**	
1	Political Regional Studies	C	School of Politics and Governance	4,00	152	60	26	34A			
2	Political Sociology	C	Department of Sociology	4,00	152	74	32	42A			
3	Contemporary Revolutions Abroad	C	School of Politics and Governance	4,00	152	48			24	24A	Foreign language
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**	**218**	**58**	**76**	**24**	**60**	
1	Political Regional Studies	C	School of Politics and Governance	4,00	152	60	26	34A			
2	Political Sociology	C	Department of Sociology	4,00	152	74	32	42A			
3	Contemporary Revolutions Abroad	C	School of Politics and Governance	4,00	152	48			24	24A	Foreign language
4	The Technologies of Symbolic Policy	C	School of Politics and Governance	3,00	114	36				36A	
	Computational Psychology			**15,00**	**570**	**134**	**30**	**32**	**40**	**32**	
	Compulsory Disciplines of Computational Psychology			**15,00**	**570**	**134**	**30**	**32**	**40**	**32**	
1	Clinical Psychology	C	Department of Psychology	4,00	152	72			40	32A	
2	Psychology of Personality and Individual Differences	C	Department of Psychology	3,00	114	4		4A			Online Course

#	Course	Type	Department	Credits	Hours						Notes
3	Social Psychology	C	Department of Psychology	3,00	114	4	4A				Online Course
4	Experimental Psychology	C	Department of Psychology	5,00	190	54	26	28A			
	Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science			**15,00**	**570**	**134**	**30**	**32**	**40**	**32**	
1	Clinical Psychology	C	Department of Psychology	4,00	152	72			40	32A	
2	Psychology of Personality and Individual Differences	C	Department of Psychology	3,00	114	4		4A			Online Course
3	Social Psychology	C	Department of Psychology	3,00	114	4	4A				Online Course
4	Experimental Psychology	C	Department of Psychology	5,00	190	54	26	28A			
	Computational Sociology			**15,00**	**570**	**234**	**80**	**30**	**54**	**70**	
	Compulsory Disciplines of Computational Sociology			**15,00**	**570**	**234**	**80**	**30**	**54**	**70**	
1	Qualitative Methods of Sociological Research	C	Department of Sociology	4,00	152	68	38	30A			
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**	**234**	**80**	**30**	**54**	**70**	
	Compulsory Disciplines of Computational Sociology AMIS			**15,00**	**570**	**234**	**80**	**30**	**54**	**70**	
1	Qualitative Methods of Sociological Research	C	Department of Sociology	4,00	152	68	38	30A			
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**	**114**		**6**	**44**	**64**	
1	Introduction to Deep Learning	E	Department of Big Data and Information Retrieval	4,00	152	10		6	4A		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**					
	Examinations					**2**			**2**		
1	Independent English Exam	C	School of Foreign Languages			2			2A		Foreign language
	General Courses			**4,00**	**152**	**30**			**16**	**14**	
	Optional General Courses			**4,00**	**152**	**30**			**16**	**14**	
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	Курсовая работа	C		6,00	228	6				6A	
	Project Internship			**2,00**	**76**	**4**	**1**	**1**	**1**	**1**	

| 1 | Project activity | E | | 2,00 | 76 | 4 | 1 | 1 | 1 | 1A | |

Curriculum agreed:

Academic Supervisor   SEDASHOV E.A.   26.03.2024

Dean   MELVILLE A.Y.   27.03.2024

Head of Centre for
 Educational Model Design   LEPESHKIN I.A.   19.04.2024

* Subject type:
Compulsory course   C
Elective course   E
Optional course   O