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
1 st, 2023/2024 academic year

APPROVED

30.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Progamme: 4 years
Years of Study: 2023/2024 - 2026/2027
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**	**844**	**398**	**408**	**624**	**444**	
	Data Culture					**2**				**2**	
1	Independent Digital Literacy Test	C	отдел развития цифровых компетенций			2				2A	Online Course
	Major			**57,00**	**2 166**	**822**	**380**	**408**	**624**	**440**	
	Core Professional Block (Major)			**38,00**	**1 444**	**584**					
1	Algorithms and Data Structures	C	Department of Big Data and Information Retrieval	9,00	342	144		64A		80A	
2	Discrete Mathematics	C	Department of Higher Mathematics	5,00	190	64	28	36A			
3	Linear Algebra and Geometry	C	Department of Higher Mathematics	7,00	266	120			60	60A	
4	Calculus	C	Department of Higher Mathematics	7,00	266	120		38A	44	38A	

#	Discipline	Type	Department								Notes
5	165	C	Department of Big Data and Information Retrieval	4,00	152	56	56A				Online Course
6	C++ Programming	C	Department of Big Data and Information Retrieval	6,00	228	80		80A			
	Elective Professional Block (Major)			**19,00**	**722**	**238**	**380**	**408**	**624**	**440**	
	Дисциплины специализаций			**19,00**	**722**	**238**	**380**	**408**	**624**	**440**	
	Computational Analytics in State Governance			**19,00**	**722**	**228**	**54**	**52**	**62**	**60**	
	Compulsory Disciplines of Computational Analytics in State Governance			**19,00**	**722**	**228**	**54**	**52**	**62**	**60**	
1	Microeconomics	C	Department of Theoretical Economics	8,00	304	124	30	28A	32	34A	
2	General Management	C	School of Politics and Governance	6,00	228	56			30	26A	
3	Legal foundations of state and municipal government	C	School of Politics and Governance	5,00	190	48	24	24A			
	Computational Analytics in State Governance with Advanced Curriculum in Applied Mathematics and Information Science			**19,00**	**722**	**228**	**54**	**52**	**62**	**60**	
1	Microeconomics	C	Department of Theoretical Economics	8,00	304	124	30	28A	32	34A	
2	General Management	C	School of Politics and Governance	6,00	228	56			30	26A	
3	Legal foundations of state and municipal government	C	School of Politics and Governance	5,00	190	48	24	24A			
	Computational Political Science			**19,00**	**722**	**260**	**30**	**70**	**80**	**80**	
	Compulsory Disciplines of Computational Political Science			**19,00**	**722**	**260**	**30**	**70**	**80**	**80**	
1	The History of Political Thought	C	School of Politics and Governance	8,00	304	132		40A	46	46A	
2	The History of Modern Russia	C	School of Politics and Governance	6,00	228	68			34	34A	
3	Categories of Political Science	C	School of Politics and Governance	5,00	190	60	30	30A			
	Computational Political Science with Advanced Curriculum in Applied Mathematics and Information Science			**19,00**	**722**	**260**	**30**	**70**	**80**	**80**	
1	The History of Political Thought	C	School of Politics and Governance	8,00	304	132		40A	46	46A	
2	The History of Modern Russia	C	School of Politics and Governance	6,00	228	68			34	34A	
3	Categories of Political Science	C	School of Politics and Governance	5,00	190	60	30	30A			
	Computational Psychology			**19,00**	**722**	**298**	**48**	**80**	**108**	**62**	
	Compulsory Disciplines of Computational Psychology			**19,00**	**722**	**298**	**48**	**80**	**108**	**62**	
1	Anatomy and Physiology of the Central Nervous System	C	Department of Psychology	7,00	266	120	20	28A	40	32A	
2	Introduction to Psychology	C	Department of Psychology	4,00	152	60	28	32A			
3	Research Seminar: Legal and Ethical Foundations of Psychological Practice	C	Department of Psychology	4,00	152	42	12A	20	10A		
4	Psychology of Motivation and Emotions	C	Department of Psychology	4,00	152	76			46	30A	

	Course		Department	Credits	Hours						Notes
	Computational Psychology with Advanced Curriculum in Applied Mathematics and Information Science			**19,00**	**722**	**298**	**48**	**80**	**108**	**62**	
1	Anatomy and Physiology of the Central Nervous System	C	Department of Psychology	7,00	266	120	20	28A	40	32A	
2	Introduction to Psychology	C	Department of Psychology	4,00	152	60	28	32A			
3	Research Seminar: Legal and Ethical Foundations of Psychological Practice	C	Department of Psychology	4,00	152	42	12A	20	10A		
4	Psychology of Motivation and Emotions	C	Department of Psychology	4,00	152	76			46	30A	
	Computational Sociology			**19,00**	**722**	**280**	**62**	**60**	**88**	**70**	
	Compulsory Disciplines of Computational Sociology			**19,00**	**722**	**280**	**62**	**60**	**88**	**70**	
1	Macroeconomics	C	Department of Theoretical Economics	7,00	266	80			40	40A	
2	Microeconomics	C	Department of Theoretical Economics	4,00	152	64	32	32A			
3	Sociological Theory	C	Department of Sociology	8,00	304	136	30	28A	48	30A	
	Computational Sociology with Advanced Curriculum in Applied Mathematics and Information Science			**19,00**	**722**	**280**	**62**	**60**	**88**	**70**	
	Compulsory Disciplines of Computational Sociology AMIS			**19,00**	**722**	**280**	**62**	**60**	**88**	**70**	
1	Macroeconomics	C	Department of Theoretical Economics	7,00	266	80			40	40A	
2	Microeconomics	C	Department of Theoretical Economics	4,00	152	64	32	32A			
3	Sociological Theory	C	Department of Sociology	8,00	304	136	30	28A	48	30A	
	English					**2**				**2**	
	Optional Courses										
1	English Language	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
	Examinations					**2**				**2**	
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
	General Courses			**3,00**	**114**	**18**	**18**				
	Optional General Courses			**2,00**	**76**						
1	Foundations of Russian Statehood	C	School of History	2,00	76	54	54A				
	Core General Courses			**1,00**	**38**	**18**	**18**				
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	18A				Online Course

Curriculum agreed:

Academic Supervisor	SEDASHOV E.A.	26.05.2023	
Dean	MELVILLE A.Y.	26.05.2023	
Head of Centre for Educational Model Design	LEPESHKIN I.A.	30.05.2023	

* Subject type:

Compulsory course	C
Elective course	E
Optional course	O