National Research University Higher School of Economics (HSE)

Curriculum
Field of study 01.04.02 Applied Mathematics and Informatics
Educational Programme "Applied Statistics with Network Analysis"
Trajectories: "Network Analysis"
Implementing unit: Faculty of Social Sciences, HSE - Moscow
1 st, 2023/2024 academic year

Length of Programme: 2 years
Years of Study: 2023/2024 - 2024/2025
Mode of Study: Full Time
Degree: Master's degree / MBA

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
	Degree Programme			**60,00**	**2 280**	**458**	**93**	**141**	**141**	**83**	
	Network Analysis (General track)			**60,00**	**2 280**	**458**	**93**	**141**	**141**	**83**	
	Major			**39,00**	**1 482**	**400**	**80**	**128**	**128**	**64**	
	Elective Courses			**6,00**	**228**	**80**			**40**	**40**	
1	Categorical Data Analysis	E	International Laboratory of Applied Network Analysis	3,00	114	40				40A	Foreign language
2	Machine Learning	E	International Laboratory of Applied Network Analysis	3,00	114	40			40A		Foreign language
3	Multidimensional Data Analysis	E	International Laboratory of Applied Network Analysis	3,00	114	40				40A	Foreign language
4	Advanced Network Analysis Methods	E	International Laboratory of Applied Network Analysis	3,00	114	40				40A	Foreign language
	Compulsory Courses			**33,00**	**1 254**	**320**	**80**	**128**	**88**	**24**	
1	Introduction to Network Analysis	C	International Laboratory of Applied Network Analysis	3,00	114	40		40A			Foreign language
2	Introduction to Statistics	C	International Laboratory of Applied Network Analysis	3,00	114	28	28A				Foreign language
3	Data Mining	C	International Laboratory of Applied Network Analysis	3,00	114	40			40A		Foreign language
4	Programming in R and Python	C	International Laboratory of Applied Network Analysis	3,00	114	28	28A				Foreign language
5	Applied Linear Models	C	International Laboratory of Applied Network Analysis	6,00	228	48		24	24A		Foreign language
6	Contemporary Data Analysis: Methodology and Methods of Interdisciplinary Research	C	International Laboratory of Applied Network Analysis	6,00	228	48	24	24A			Foreign language

#	Subject	Type	Department	Credits	Hours						
7	Contemporary Decision Sciences: an Integrated Perspective	C	International Laboratory of Applied Network Analysis	6,00	228	48				24	24A	Foreign language
8	Probability Theory	C	International Laboratory of Applied Network Analysis	3,00	114	40		40A				Foreign language
Key Seminars				**7,00**	**266**	**56**	**13**	**13**	**13**	**17**	
1	Research Seminar "Computational Social and Network Sciences"	E	International Laboratory of Applied Network Analysis	6,00	228	48	12	12	12	12A	Foreign language
2	Research Seminar "Application of Network Theory to Business Analytics and Social Networks"	E	International Laboratory of Applied Network Analysis	6,00	228	48	12	12	12	12A	Foreign language
3	Mentor's Seminar	C	International Laboratory of Applied Network Analysis	1,00	38	8	1	1	1	5A	Foreign language
Magolego				**9,00**	**342**						
1	All-university Pool MAGOLEGO Courses	E		9,00	342						Foreign language
Internship				**5,00**	**190**	**2**				**2**	
Research Internship				**5,00**	**190**	**2**				**2**	
1	Term paper	C		5,00	190	2				2A	Foreign language

Curriculum agreed:

Academic Supervisor	Климов И.А.	25.05.2023
Dean	MELVILLE A.Y.	25.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	26.05.2023

* Subject type:
Compulsory course   C
Elective course   E