



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics

Educational Programme "Data Mining"

Trajectories: "Data Mining"

Implementing unit: Faculty of Informatics, Mathematics and
Computer Sciences, HSE - Nizhny Novgorod

1 st, 2023/2024 academic year

APPROVED

12.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

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	524	126	134	150	114	
Data Mining (Applied track)				60,00	2 280	524	126	134	150	114	
Major				42,00	1 596	404	124	104	108	68	
1	Discrete optimization and operations research	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			Foreign language
2	Discrete Models and Algorithms Complexity	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
3	Machine Learning	C	Department of Applied Mathematics and Information Science	6,00	228	60	40	20A			
4	Modern Methods of Data Analysis	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
5	Modern Methods of Decision Making	C	Department of Applied Mathematics and Information Science	6,00	228	60			40	20A	
6	Stochastic Models	C	Department of Applied Mathematics and Information Science	6,00	228	60			40	20A	
7	Technologies of work with big data	C	Department of Applied Mathematics and Information Science	6,00	228	56			28	28A	
Key Seminars				7,00	266	118	2	30	42	44	
1	Research Seminar "Methods of Data Mining"	C	Department of Applied Mathematics and Information Science	3,00	114	52			12	40A	

2	Research Seminar "Data Mining Tools"	C	Department of Applied Mathematics and Information Science	3,00	114	56		28	28A		
3	Mentor's Seminar	C	Department of Applied Mathematics and Information Science	1,00	38	10	2	2	2	4A	
Magolego				9,00	342						
1	All-university Pool MAGOLEGO Courses	E		9,00	342						
Internship				2,00	76	2				2	
Research Internship				2,00	76	2				2	
1	Term Paper	C		2,00	76	2				2A	

Curriculum agreed:

Academic Supervisor	BATSYN M.V.	17.04.2023
Dean	ASEEVA N.V.	24.04.2023
Deputy Director	FOMENKOV D.A.	25.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	07.05.2023

* Subject type:

Compulsory course

C

Elective course

E