



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

2 nd, 2024/2025 academic year

APPROVED

01.04.2024

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	
<b>Degree Programme</b>				<b>60,00</b>	<b>2 280</b>	<b>224</b>	<b>113</b>	<b>99</b>	<b>8</b>	<b>4</b>	
<b>Data Mining (Applied track)</b>				<b>60,00</b>	<b>2 280</b>	<b>224</b>	<b>113</b>	<b>99</b>	<b>8</b>	<b>4</b>	
<b>Major</b>				<b>18,00</b>	<b>684</b>	<b>154</b>	<b>84</b>	<b>70</b>			
1	Optimization: Advanced Level	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
2	How to Win a Data Science Competition: Learn from Top Kagglers	C	Department of Applied Mathematics and Information Science	3,00	114	14		14A			Online Course, Foreign language
3	Computational Linguistics	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
4	Network Structure Analysis	C	Department of Applied Mathematics and Information Science	3,00	114	28	28A				
<b>Final State Certification (FSC)</b>				<b>6,00</b>	<b>228</b>	<b>2</b>				<b>2</b>	
1	Final Qualification Paper	C		6,00	228	2				2A	
<b>Key Seminars</b>				<b>12,00</b>	<b>456</b>	<b>62</b>	<b>29</b>	<b>29</b>	<b>4</b>		
1	Research seminar "Artificial Intelligence Technologies"	C	Department of Applied Mathematics and Information Science	6,00	228	56	28	28A			
2	Project Seminar	C	Department of Applied Mathematics and Information Science	3,00	114	2			2A		
3	Mentor's Seminar	C	Department of Applied Mathematics and Information Science	3,00	114	4	1	1	2A		
<b>Internship</b>				<b>24,00</b>	<b>912</b>	<b>6</b>			<b>4</b>	<b>2</b>	

	<b>Research Internship</b>		<b>12,00</b>	<b>456</b>	<b>2</b>				<b>2</b>	
1	Preparation of the final qualifying work	C	12,00	456	2				2	
	<b>Project Internship</b>		<b>6,00</b>	<b>228</b>	<b>2</b>				<b>2</b>	
1	Project	C	6,00	228	2			2A		
	<b>Professional Internship</b>		<b>6,00</b>	<b>228</b>	<b>2</b>				<b>2</b>	
1	Research Internship	C	6,00	228	2			2A		

**Curriculum agreed:**

Academic Supervisor	BATSYN M.V.	25.03.2024
Dean	ASEEVA N.V.	25.03.2024
Deputy Director	FOMENKOV D.A.	27.03.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	01.04.2024

\* Subject type:

Compulsory course

C

Elective course

E