



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics

Educational Programme "Master of Data Science"

Trajectories: "Master of Data Science"

Implementing unit: Faculty of Computer Science, HSE - Moscow

1 st, 2023/2024 academic year

APPROVED

17.03.2023

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	
	<b>Degree Programme</b>			<b>60,00</b>	<b>2 280</b>	<b>148</b>	<b>32</b>	<b>32</b>	<b>42</b>	<b>42</b>	
	<b>Master of Data Science (Applied track)</b>			<b>60,00</b>	<b>2 280</b>	<b>148</b>	<b>32</b>	<b>32</b>	<b>42</b>	<b>42</b>	
	<b>Major</b>			<b>24,00</b>	<b>912</b>	<b>80</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	
1	Python Basic	C	Department of Big Data and Information Retrieval	3,00	114	10	10A				Online Course, Foreign language
2	Python Advanced	C	Department of Big Data and Information Retrieval	3,00	114	10		10A			Online Course, Foreign language
3	SQL	C	Department of Big Data and Information Retrieval	3,00	114	10				10A	Online Course, Foreign language
4	Discrete Mathematics	C	Department of Big Data and Information Retrieval	3,00	114	10	10A				Online Course, Foreign language
5	Linear Algebra	C	Department of Big Data and Information Retrieval	3,00	114	10			10A		Online Course, Foreign language
6	Calculus	C	Department of Big Data and Information Retrieval	3,00	114	10		10A			Online Course, Foreign language
7	Basic Statistics	C	Department of Big Data and Information Retrieval	3,00	114	10				10A	Online Course, Foreign language
8	Probability Theory	C	Department of Big Data and Information Retrieval	3,00	114	10			10A		Online Course, Foreign language
	<b>Key Seminars</b>			<b>18,00</b>	<b>684</b>	<b>48</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	
1	Research Seminar "Introduction to Specialty"	C	Department of Big Data and Information Retrieval	12,00	456	40	10	10A	10	10A	Foreign language
2	Mentor's Seminar	C	Department of Big Data and Information Retrieval	6,00	228	8	2	2	2	2A	Foreign language
	<b>Internship</b>			<b>18,00</b>	<b>684</b>	<b>20</b>			<b>10</b>	<b>10</b>	
	<b>Project Internship</b>			<b>18,00</b>	<b>684</b>	<b>20</b>			<b>10</b>	<b>10</b>	
1	Algorithms and Data Structures	C		9,00	342	10			10A		Foreign language
2	Data Scraping	C		9,00	342	10				10A	Foreign language

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**Curriculum agreed:**

Academic Supervisor	SOKOLOV E.A.	27.02.2023
Dean	ARZHANTSEV I.V.	27.02.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	17.03.2023

**\* Subject type:**

Compulsory course

C

Elective course

E