



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: "Data Scientist"

Implementing unit: Faculty of Computer Science, HSE - Moscow

1 st, 2022/2023 academic year

APPROVED

02.08.2022

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2022/2023 - 2023/2024

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	
	Degree Programme			60,00	2 280	99	33	33	33	
	Data Scientist (Applied track)			60,00	2 280	99	33	33	33	
	Major			40,00	1 520	64	32	16	16	
1	Python Basic	C	Department of Big Data and Information Retrieval	5,00	190	8	8A			Online Course, Foreign language
2	Python Advanced	C	Department of Big Data and Information Retrieval	5,00	190	8	8A			Online Course, Foreign language
3	SQL	C	Department of Big Data and Information Retrieval	5,00	190	8			8A	Online Course, Foreign language
4	Discrete Mathematics	C	Department of Big Data and Information Retrieval	5,00	190	8	8A			Online Course, Foreign language
5	Linear Algebra	C	Department of Big Data and Information Retrieval	5,00	190	8		8A		Online Course, Foreign language
6	Calculus	C	Department of Big Data and Information Retrieval	5,00	190	8	8A			Online Course, Foreign language
7	Basic Statistics	C	Department of Big Data and Information Retrieval	5,00	190	8			8A	Online Course, Foreign language
8	Probability Theory	C	Department of Big Data and Information Retrieval	5,00	190	8		8A		Online Course, Foreign language
	Key Seminars			10,00	380	19	1	1	17	
1	Research Seminar "Data Scraping"	C	Department of Big Data and Information Retrieval	9,00	342	16			16A	Foreign language
2	Mentor's Seminar	C	Department of Big Data and Information Retrieval	1,00	38	3	1	1	1A	Foreign language
	Internship			10,00	380	16		16		
	Project Internship			10,00	380	16		16		

1	Algorithms and Data Structures - Part I	C	Department of Big Data and Information Retrieval	5,00	190	8		8A		Foreign language
2	Algorithms and Data Structures - Part II	C	Department of Big Data and Information Retrieval	5,00	190	8		8A		Foreign language

Curriculum agreed:

Academic Supervisor SOKOLOV E.A. 26.07.2022

Dean ARZHANTSEV I.V. 02.08.2022

Head of Degree Programmes
Development Office MAMONOVA M.A. 02.08.2022

* Subject type:

Compulsory course

C

Elective course

E