National Research University Higher School of Economics (HSE)

Curriculum
Field of study 01.03.02 Applied Mathematics and Information Science
Educational Programme "Data Science and Business Analytics"
Implementing unit: Faculty of Computer Science, HSE - Moscow
2 nd, 2022/2023 academic year

Length of Programme: 4 years
Years of Study: 2021/2022 - 2024/2025
Mode of Study: Full Time
Degree: Bachelor's degree

Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	Allocation of Contact Hours				Additional Information
							1	2	3	4	
	Degree Progamme			60,00	2 280	1 171	236	280	390	265	
	Data Culture					3				3	
1	Independent Programming Test. Advanced Level	C	Center for Support and Monitoring of Degree Programs			3				3A	Foreign language
	Major			43,00	1 634	884	172	212	310	190	
	Core Professional Block (Major)			31,00	1 178	684	142	178	220	144	
	Subject Areas			31,00	1 178	684	142	178	220	144	
	Algorithms and Data Structures			8,00	304	246	56	64	66	60	
1	Algorithms and Data Structures	C	Department of Big Data and Information Retrieval	8,00	304	246	56A	64	66	60A	Foreign language
	Computer Architecture and Operating Systems			5,00	190	144			88	56	
1	Computer Architecture and Operating Systems	C	Department of Big Data and Information Retrieval	5,00	190	144			88	56A	Foreign language
	Discrete Mathematics			5,00	190	60	28	32			
1	Discrete Mathematics 2	C	Department of Big Data and Information Retrieval	5,00	190	60	28	32A			Foreign language
	Mathematical Analysis			5,00	190	64	30	34			
1	Calculus 2	C	Department of Big Data and Information Retrieval	5,00	190	64	30	34A			Foreign language
	Probability Theory and Mathematical Statistics			8,00	304	170	28	48	66	28	
1	Probability Theory and Mathematical Statistics	C	Department of Big Data and Information Retrieval	8,00	304	170	28	48A	66	28A	Online Course, Foreign language
	Elective Professional Block (Major)			12,00	456	200	30	34	90	46	
1	Differential Equations	C	Department of Big Data and Information Retrieval	4,00	152	72			44	28A	Foreign language
2	Introduction to Micro and Macroeconomics	C	Department of Big Data and Information Retrieval	8,00	304	128	30	34A	46	18A	Foreign language

	Minor			**8,00**	**304**	**120**	**28**	**32**	**44**	**16**	
1	Business and Management in Global Context	C	Department of Big Data and Information Retrieval	8,00	304	120	28	32	44A	16A	Foreign language
	General Courses			**1,00**	**38**	**144**	**36**	**36**	**36**	**36**	
	Core General Courses			**1,00**	**38**	**144**	**36**	**36**	**36**	**36**	
1	Physical Training	C	Department of Physical Training	1,00	38	144	36	36	36	36A	Foreign language
	Internship			**8,00**	**304**	**20**				**20**	
	Project Internship			**5,00**	**190**	**20**				**20**	
1	Term Project 1	C		5,00	190	20				20A	Foreign language
	Professional Internship			**3,00**	**114**						
1	Educational Internship	C		3,00	114						Foreign language

Curriculum agreed:

Academic Supervisor   29.06.2022

Dean   ARZHANTSEV I.V.   30.06.2022

Head of Degree Programmes
Development Office   MAMONOVA M.A.   01.07.2022

* Subject type:
Compulsory course   C