



National Research University Higher School of Economics (HSE)

Curriculum
 Field of study 01.03.02 Applied Mathematics and Information
 Science,
 38.03.01 Economics
 Educational Programme "Economics and Data Science"
 Implementing unit: Faculty of Economic Sciences, HSE -
 Moscow
 1 st, 2022/2023 academic year

APPROVED

04.05.2022

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 4 years

Years of Study: 2022/2023 - 2025/2026

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 Programme				60,00	2 480	1 027			60	60	
Data Culture						3					
1	Independent Digital Literacy Test	C	Center for Support and Monitoring of Degree Programs			3				3A	
Major				56,00	2 128	858			60	60	
Core Professional Block (Major)				56,00	2 128	858			60	60	
Microeconomics - 1				7,00	266	120			60	60	
1	Microeconomics-1	E	Department of Theoretical Economics	7,00	266	120			60	60A	
2	Microeconomics-1 (advanced course)	E	Department of Theoretical Economics	7,00	266	120			60	60A	
Compulsory Courses				49,00	1 862	738					
1	Algorithms and Data Structures	C	Department of Big Data and Information Retrieval	9,00	342	144		64A		80A	
2	Discrete Mathematics	C	Department of Big Data and Information Retrieval	7,00	266	104	28	32A	44A		
3	Linear Algebra and Geometry	C	Department of Big Data and Information Retrieval	10,00	380	140	24	32A	44	40A	
4	Calculus	C	Department of Big Data and Information Retrieval	10,00	380	176	44	48A	44	40A	
5	C++ Programming Language	C	Joint Department with Yandex	4,00	152	88			88A		
6	Economic Thinking	C	Department of Theoretical Economics	5,00	190	34	16	18A			Online Course
7	Python Programming Language	C	Joint Department with Yandex	4,00	152	52	52A				Online Course
English						2					

Optional Courses											
1	English Language	O		8,00	304	128	20	28A	40	40A	Foreign language, Credits only to the cumulative rating
Examinations											
1	English Language Integrative Exam	C	School of Foreign Languages			2				2A	Foreign language
General Courses				1,00	238	162					
Core General Courses				1,00	238	162					
1	Safe Living Basics	C	центр поддержки студенческих инициатив	1,00	38	18	18A				Online Course
2	Physical Training	C	Department of Physical Training		200	144	36	36	36	36A	
Internship				3,00	114	2					
Professional Internship				3,00	114	2					
1	Computer workshop on economics	C		3,00	114	2				2A	

Curriculum agreed:

Academic Supervisor	SAMONENKO I.Y.	20.04.2022
Dean	PEKARSKIY S.E.	21.04.2022
Head of Degree Programmes Development Office	MAMONOVA M.A.	28.04.2022

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O