



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 38.03.01 Economics

Educational Programme "Economics and Statistics"

Implementing unit: Faculty of Economic Sciences, HSE - Moscow

APPROVED  
01.06.2023  
Vice Rector  
ROSHCHIN S.Y.  
Signed with EDS

Years of Study: 2023/2024 - 2026/2027

Length of Programme: 4 years

Mode of Study: Full Time

Degree: Bachelor's degree

Block Code	Course	Subject type	Credits	Credits by Years				Planned Educational Programme Development Results
				1	2	3	4	
	Degree Programme		240,00	60,00	60,00	60,00	60,00	
	Major		162,00	47,00	41,00	41,00	33,00	
	Core Professional Block (Major)		105,00	47,00	29,00	29,00		
1	Mathematical Statistics	C	6,00		6,00			GPC-1, GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-5, UC-6
2	Microeconomics - 2	C	6,00		6,00			GPC-2, GPC-3, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-8, UC-1, UC-2, UC-4, UC-5, UC-6, UC-9
3	Macroeconomics - 1	C	7,00		7,00			GPC-2, GPC-3, GPC-4, GPC-5, PC-10, PC-11, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-4, UC-5, UC-6, UC-9
4	Multidimensional Statistical Methods	C	6,00		6,00			GPC-1, GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6
5	Statistical Analysis of Non-numerical Information	C	4,00		4,00			GPC-1, GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6
6	Econometrics	C	12,00			12,00		GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6, UC-9

7	Russian Economy	C	5,00			5,00		GPC-1, GPC-2, GPC-3, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-2, UC-4, UC-5, UC-9
8	Macroeconomics 2	C	6,00			6,00		GPC-2, GPC-3, GPC-4, GPC-5, PC-10, PC-11, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-4, UC-5, UC-9
9	Economic Statistics	C	6,00			6,00		GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-11, UC-2, UC-4, UC-5
10	Microeconomics-1	C	7,00	7,00				GPC-2, GPC-3, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-8, UC-1, UC-2, UC-5, UC-6, UC-9
11	Economic Thinking	C	5,00	5,00				GPC-3, GPC-4, GPC-5, PC-10, PC-4, PC-8, UC-1, UC-4, UC-5, UC-6, UC-9
12	Linear Algebra	C	6,00	6,00				GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-3, PC-4, PC-7, UC-1, UC-2, UC-6
13	Probability Theory	C	8,00	8,00				GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-3, PC-4, PC-5, PC-8, UC-1, UC-2, UC-6
14	Calculus-1	C	8,00	8,00				
15	Calculus-2	C	7,00	7,00				
16	Financial Accounting and Reporting	C	6,00	6,00				GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-7, PC-8, UC-1, UC-10, UC-2, UC-4
Elective Professional Block (Major)			57,00		12,00	12,00	33,00	
Elective Subjects for the 2nd Year			12,00		12,00			
1	Demography	E	3,00		3,00			GPC-2, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-8, UC-1, UC-11, UC-2, UC-4, UC-5, UC-6
2	Differential and Difference Equations	E	6,00		6,00			GPC-5, GPC-6, PC-10, PC-11, PC-4, PC-5, UC-2, UC-6
3	Instrumental Methods for Digital Economics	E	6,00		6,00			GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-6
4	International Financial Reporting Standards	E	6,00		6,00			GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-11, UC-2, UC-4, UC-5
5	Essentials of Programming and Database	E	3,00		3,00			GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-2, PC-3, PC-5, PC-7, UC-1, UC-2, UC-6

6	Financial Institutions and Risks	E	3,00		3,00		GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9
7	Financial Markets	E	3,00		3,00		GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-10, UC-2, UC-6, UC-9
8	Private equity and venture capital, funding mechanisms and participants	E	3,00		3,00		GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-8, UC-9
9	Economic History	E	3,00		3,00		GPC-3, GPC-5, PC-4, PC-6, UC-1, UC-5, UC-6, UC-9
Elective Subjects for the 3rd Year			12,00			12,00	
1	Professional Participants in Financial Markets	E	3,00			3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-10, UC-6, UC-9
2	Raising Capital in the Stock Market	E	3,00			3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-9
3	Decision Making in the Problems of Digital Economics under Risk and Uncertainty	E	3,00			3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-2, UC-4, UC-6, UC-9
4	Dynamic Optimization in Economics and Finance	E	3,00			3,00	GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-3, PC-4, PC-5, UC-9
5	Stochastic Processes	E	6,00			6,00	GPC-2, GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-4, PC-6, UC-1, UC-2, UC-6
6	Game Theory	E	6,00			6,00	GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-6, UC-9
7	Insurance and Actuarial Methods	E	3,00			3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9
8	Population and Development	E	6,00			6,00	GPC-2, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-4, UC-5, UC-6
9	Financial Economics	E	6,00			6,00	GPC-2, GPC-3, GPC-4, GPC-5, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-4, UC-6, UC-9

10	Corporate Finance	E	3,00			3,00	GPC-1, GPC-2, GPC-4, GPC-5, PC-10, PC-11, PC-12, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-4, UC-6, UC-9
11	Management Accounting	E	3,00			3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9
12	International Financial Reporting Standards	E	3,00			3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-2, UC-4, UC-5, UC-6, UC-9
13	Financial Institutions and Risks	E	3,00			3,00	GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9
Elective Subjects for the 4th Year			30,00			30,00	
1	Social Statistics	C	4,00			4,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-11, UC-2, UC-4, UC-5
2	Big Data Analysis in Insurance	E	3,00			3,00	GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-4, PC-5, PC-7, PC-8, UC-9
3	Russian Accounting Standards, its Analysis and Application	E	3,00			3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-10, UC-2, UC-4, UC-6, UC-9
4	Financial Accounting, Reporting, Analysis and Auditing of Bank Operations	E	3,00			3,00	GPC-4, GPC-5, PC-10, PC-11, PC-2, PC-3, PC-5, PC-6, PC-7, UC-10, UC-9
5	Valuation of the Company	E	3,00			3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-9
6	Investment Management	E	3,00			3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6, UC-9
7	Banking	E	6,00			6,00	GPC-4, GPC-5, PC-10, PC-11, PC-12, PC-2, PC-6, UC-9
8	Tax System of Russia	E	3,00			3,00	GPC-4, GPC-5, PC-10, PC-12, PC-2, PC-6, PC-8, UC-9
9	Risk Management	E	3,00			3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-4, PC-5, PC-6, PC-8, UC-9
10	Management Accounting	E	3,00			3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9

11	Financial Institutions and Risks	E	3,00				3,00	GPC-1, GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6, UC-9
12	International Financial Reporting Standards	E	6,00				6,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-1, UC-10, UC-2, UC-4, UC-5, UC-6, UC-9
13	Human Migration	E	3,00				3,00	GPC-2, GPC-5, PC-10, PC-11, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-5, UC-6
14	Global Demographic Issues	E	3,00				3,00	GPC-2, GPC-5, PC-10, PC-4, PC-5, PC-7, UC-1, UC-11, UC-2, UC-5, UC-6
15	Economics of Information	E	3,00				3,00	GPC-2, GPC-3, GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-5, UC-6, UC-9
16	Financial Stability and Financial Crises	E	3,00				3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-4, PC-6, PC-8, UC-9
17	Statistical Modelling of Social and Economic Processes	E	3,00				3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
18	Data Mining	E	3,00				3,00	GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6
19	Smart Methods for Information Analysis	E	3,00				3,00	GPC-2, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-6
20	Actuarial Calculations in Life Insurance	E	3,00				3,00	GPC-2, GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-11, UC-2, UC-6, UC-9
21	Models of Financial Markets	E	3,00				3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-10, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-5, UC-6, UC-9
22	Dynamic Optimization in Economics and Finance	E	6,00				6,00	GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-3, PC-4, PC-5, UC-9
23	Decision Making in the Problems of Digital Economics under Risk and Uncertainty	E	3,00				3,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-2, UC-4, UC-6, UC-9
24	Machine Learning	E	5,00				5,00	GPC-5, GPC-6, PC-10, PC-11, PC-3, PC-4, PC-5

25	Derivatives	E	3,00				3,00	GPC-2, GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-6, UC-9
26	Financial Markets Analysis	E	3,00				3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-10, PC-11, PC-2, PC-4, PC-5, PC-6, PC-7, PC-8, UC-9
27	Raising Capital in the Stock Market	E	3,00				3,00	GPC-1, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-5, PC-6, PC-7, PC-8, UC-9
28	Professional Participants in Financial Markets	E	3,00				3,00	GPC-2, GPC-4, GPC-5, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-10, UC-6, UC-9
	Research seminar		3,00				3,00	
1	Methodological Research Seminar	C	3,00				3,00	GPC-2, GPC-5, GPC-6, PC-10, PC-4, PC-5, PC-6, PC-8, PC-9, UC-1, UC-2, UC-4, UC-5, UC-6
	Internship		30,00		5,00	5,00	20,00	
	Professional Internship		6,00				6,00	
1	Graduation Internship	C	6,00				6,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6, UC-7, UC-8
	Project Internship		24,00		5,00	5,00	14,00	
1	Preparation of Graduation Thesis	C	12,00				12,00	GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, UC-1, UC-2, UC-4, UC-5, UC-6
2	Project	C	5,00		5,00			GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
3	Project	C	5,00			5,00		GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
4	Project	C	2,00				2,00	GPC-1, GPC-2, GPC-4, GPC-5, GPC-6, PC-1, PC-10, PC-11, PC-12, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, UC-1, UC-2, UC-3, UC-4, UC-5, UC-6
	Research Internship							
	General Courses		14,00	7,00	1,00	3,00	3,00	
	Core General Courses		2,00	1,00	1,00			
1	Safe Living Basics	C	1,00	1,00				GPC-5, PC-10, UC-10, UC-11, UC-2, UC-3, UC-8

2	Physical Training	C	1,00		1,00			GPC-5, PC-10, UC-11, UC-3, UC-7, UC-8
	Optional General Courses		12,00	6,00		3,00	3,00	
1	Philosophy	C	3,00				3,00	GPC-5, PC-4, UC-1, UC-11, UC-4, UC-5
2	Russian History	C	4,00	4,00				GPC-5, PC-10, PC-4, PC-8, UC-1, UC-11, UC-4, UC-5
3	Law	C	3,00			3,00		GPC-5, PC-10, PC-2, PC-6, UC-10, UC-2, UC-4, UC-5, UC-8
4	Foundations of Russian Statehood	C	2,00	2,00				GPC-5, PC-10, PC-4, PC-8, UC-1, UC-11, UC-4, UC-5
	Minor		20,00		10,00	10,00		
1	Minor	C	20,00		10,00	10,00		GPC-5, PC-10, PC-4, PC-8, UC-6
	English		1,00				1,00	
	Examinations		1,00				1,00	
1	Independent English Exam	C						GPC-5, PC-10, PC-8, UC-4, UC-6
2	Project Proposal	C	1,00				1,00	GPC-4, GPC-5, PC-10, PC-8, UC-4, UC-6
3	English Language Integrative Exam (offered in a foreign language)	C						GPC-5, PC-10, PC-8, UC-4, UC-6
	Optional Courses							
1	Academic English Writing	O	2,00				2,00	GPC-5, PC-10, PC-4, PC-5, PC-8, UC-10, UC-4, UC-5, UC-6
2	English	O	8,00	8,00				GPC-5, PC-10, PC-8, UC-4, UC-5, UC-6
3	English	O	6,00		6,00			GPC-5, PC-10, PC-8, UC-4, UC-5, UC-6
	Data Culture		10,00	6,00	3,00	1,00		
1	Programming in Python	C	3,00		3,00			GPC-5, GPC-6, PC-10, PC-3, PC-5, PC-7, UC-2, UC-6
2	Independent Data Science Test. Intermediate	C	1,00			1,00		GPC-5, GPC-6, PC-10, PC-11, PC-3, PC-8, UC-10, UC-6
3	Independent Programming Test. Intermediate	C						GPC-5, GPC-6, PC-10, PC-11, PC-3, PC-8, UC-10, UC-6
4	Introduction to Statistics and Data Processing Tools	C	6,00	6,00				GPC-5, GPC-6, PC-1, PC-3, PC-5, PC-7, UC-1, UC-10, UC-2, UC-6
5	Independent Digital Literacy Test	C						GPC-5, GPC-6, PC-1, PC-3, PC-5, PC-7, UC-1, UC-10, UC-2, UC-6
	Final State Certification (FSC)		3,00				3,00	
	Thesis Work		3,00				3,00	
1	Presenting of Graduation Thesis	C	3,00				3,00	GPC-5, GPC-6, PC-10, PC-11, PC-12, PC-3, PC-4, PC-8, UC-4, UC-6
	State Examinations							

**Curriculum agreed:**

Academic Supervisor

SIROTIN V.P.

29.05.2023

Dean PEKARSKIY S.E. 29.05.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 31.05.2023

\* Subject type:  
Compulsory course C  
Elective course E  
Optional course O