

National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 38.03.05 Business Informatics
Educational Programme "Business Informatics"

Faculty of Economics, Management and Business Informatics, HSE - Perm

APPROVED by
Vice Rector

ROSHCHIN Y.S.
27.04.2021

Years of Study: 2021/2022 - 2024/2025

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 (competencies according to the educational standard)
				1	2	3	4	
	Degree Programme		240	60	60	60	60	
	Major		143	46	31	27	39	
	Core Professional Block (Major)		92	40	19	16	17	
	Subject Areas		92	40	19	16	17	
	Economics		10	10				
1	Microeconomics	C	5	5				PC-1
2	Macroeconomics	C	5	5				PC-2
	Higher Mathematics		24	18	6			
1	Calculus	C	8	8				GPC-2, PC-22, GPC-1
2	Probability Theory and Mathematical Statistics	C	6		6			GPC-2, GPC-1, PC-22
3	Linear Algebra	C	6	6				GPC-1, GPC-2
4	Discrete Mathematics	C	4	4				GPC-2, GPC-1
	Computer Science and Information Systems		3		3			
1	IT Infrastructure for Business	C	3		3			PC-27, PC-4, PC-10, PC-8
	General and Strategic Management		8	4		4		
1	Strategic Management	C	4			4		GPC-1, UC-1, GPC-2, UC-2
2	Modern Conception of Management	C	4	4				UC-2, GPC-2, UC-1, GPC-1
	Enterprise Architecture, Management of Business Processes and Projects		9			4	5	
1	Information systems management	C	4			4		PC-29, UC-2, PC-28
2	Enterprise Architecture	C	5				5	PC-15, PC-9, PC-8, PC-13, PC-14, PC-7, PC-16, PC-26
	Programming		18	8	10			
1	Python Programming	C	5		5			PC-23
2	Introduction to Programming	C	8	8				PC-23
3	The Development of Web-applications	C	5		5			PC-16, GPC-3, PC-23

	Decision-making and Operations Research		4			4		
1	Quantitative Decision Making in a Big Data Society	C	4			4		GPC-2, UC-2, GPC-1, UC-1
	Finance and Accounting		4			4		
1	Financial and Organizational Accounting	C	4			4		PC-5, GPC-3, PC-12, PC-11, PC-1
	Entrepreneurship		4				4	
1	Entrepreneurship	C	4				4	PC-3, PC-21, PC-30, PC-6, PC-20, PC-5
	Leadership and Team Management		8				8	
1	Business Ethics and Corporate Social Responsibility	C	4				4	UC-3, UC-4, UC-6
2	Leadership and Team Management	C	4				4	PC-28, UC-3, UC-6
	Elective Professional Block (Major)		51	6	12	11	22	
	Информационные системы в бизнесе		15			6	9	
	Дисциплины по выбору (3 курс)		6			6		
1	Development in Business-oriented Programming Languages and Low Code Platform	E	3			3		UC-1, UC-2
2	Mobile applications development	E	3			3		UC-1, UC-2
3	Commercial Development of Software	E	3			3		UC-2, UC-1
4	Information Systems and Organisations	E	3			3		UC-2, UC-1
5	Automation of Enterprise Accounting	E	3			3		UC-1, UC-2
6	Electronic Business	E	3			3		UC-2, UC-1
	Дисциплины по выбору (4 курс)		9				9	
1	Design Thinking	E	3				3	UC-2, UC-1
2	Blockchain Technology for Business	E	3				3	UC-1, UC-2
3	Information Systems Performance Assessment	E	3				3	UC-2, UC-1
4	Sale and Customer Relationship Management Systems	E	3				3	UC-1, UC-2
5	Digital Business Models	E	3				3	UC-1, UC-2
6	Digital Product Development	E	3				3	UC-2, UC-1
	Вариативный профессиональный модуль		15	6	2	2	5	
1	Project Seminar	C	6	2	2	2		UC-3, GPC-3, UC-6
2	Research seminar	C	5				5	PC-32, PC-33, PC-31, GPC-3
3	Career Guidance Seminar "Introduction to Business Informatics"	C	4	4				UC-1, UC-2, UC-4, UC-3
	Дополнение профессионального модуля (Major доп)		21		10	3	8	
1	Business Processes Modelling and Analysis	C	3		3			PC-7
2	Software Design and Architecture	C	4		4			PC-19, PC-15, PC-18, PC-16, PC-17
3	Requirements Management	C	3		3			PC-13, PC-17, PC-26, PC-19, PC-18, PC-14
4	Computer Architecture and Operating Systems	C	3			3		PC-13
5	Big Data and ETL systems	C	4				4	PC-22, PC-23
6	Introduction to Information Security	C	4				4	PC-13, GPC-3
	Internship		33	4	5	9	15	
	Professional Internship		4			4		

1	Work Experience Internship	C	4			4		GPC-3, UC-2, UC-3, UC-1, GPC-1
	Project Internship		14	4	5	5		
1	Прикладной проект 1	E	4	4				GPC-3, UC-1, UC-2, UC-4, GPC-1
2	Прикладной проект 2	E	5		5			UC-2, UC-4, GPC-3, GPC-1, UC-1
3	Исследовательский или прикладной проект	E	5			5		UC-4, GPC-1, UC-1, GPC-3, UC-2
	Research Internship		15				15	
1	Graduation Internship	C	6				6	UC-1, UC-2, GPC-1, UC-4, GPC-3
2	Preparation of Graduation Thesis	C	9				9	UC-2, GPC-3, UC-1, GPC-1, UC-4
	General Courses		14	10			4	
	Core General Courses		2	2				
1	Safe Living Basics	C	1	1				UC-8
2	Physical Training	C	1	1				UC-7
	Optional General Courses		12	8			4	
1	Psychology	C	4				4	UC-3, UC-4, UC-5
2	History	C	4	4				UC-5
3	Legal Literacy	C	4	4				UC-1, UC-4
	Minor		20		10	10		
1	Minor	E	20		10	10		UC-3, UC-4, UC-2, UC-1
	English		1				1	
	Examinations		1				1	
1	Independent English Language Test	C						UC-4
2	Project Proposal	C	1				1	UC-4
3	English Language Integrative Exam	C						UC-4
	Optional Courses							
1	Academic English Writing	O	2				2	UC-4
2	English	O	14	8	6			UC-4
	Data Culture		28		14	14		
1	Algorithms and Data Structures	C	9		9			GPC-2, PC-23, GPC-1
2	Machine Learning	C	6			6		GPC-2, PC-22, GPC-1
3	Databases	C	5		5			PC-25, PC-24
4	Data Warehouse	C	4			4		PC-24, PC-25
5	Data Analysis	C	3			3		GPC-2, PC-22, GPC-1
6	Independent Digital Competence Assessment. Digital Literacy	C						UC-1
7	Independent Digital Competence Assessment. Programming. Advanced Level	C						PC-23
8	Independent Digital Competence Assessment. Data Science. Advanced Level	C	1			1		PC-24, UC-2, GPC-3
	Final State Certification (FSC)		1				1	
	Thesis Work		1				1	
1	Presenting of Graduation Thesis	C	1				1	GPC-1, UC-4, UC-1, GPC-3, UC-2

Academic Supervisor	SHESTAKOVA L.V.	19.04.2021
Dean	ISOPESKUL O.Y.	19.04.2021
Deputy Director	ZAGORODNOVA E.P.	19.04.2021
Head of Degree Programmes Development Office	MAMONOVA M.A.	26.04.2021

* Subject type:

Compulsory course	C
Elective course	E
Optional course	O