



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 09.03.04 Software Engineering,
38.03.05 Business InformaticsEducational Programme "Разработка информационных
систем для бизнеса"Specializations: "Information Systems Lifecycle Management",
"IT Analytics", "Software Systems Development"Implementing unit: -, HSE - Perm
2 nd, 2023/2024 academic year

APPROVED

03.05.2023

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	776	172	180	234	190	
Data Culture				11,00	418	132			74	58	
1	Applied algorithms and data structures	C	Department of Big Data and Information Retrieval	3,00	114	40			40A		
2	Data Analysis in Python	C	Department of Higher Mathematics	3,00	114	24				24A	
3	External Examinations on Digital Skills. Entry-level	C	отдел развития цифровых компетенций			2			2A		
4	External Examinations on Digital Skills. Intermediate Level	C	отдел развития цифровых компетенций			2				2A	
5	Mathematical Methods for Data Analysis	C	Кафедра информационных технологий в бизнесе	5,00	190	62			32	30A	
6	Independent Programming Test. Advanced Level	C	отдел развития цифровых компетенций			2				2A	Online Course
Major				34,00	1 292	386	116	120	88	62	
Core Professional Block (Major)				31,00	1 178	358	102	106	88	62	
Subject Areas				31,00	1 178	358	102	106	88	62	
1	Algorithms and Data Structures	C	Кафедра информационных технологий в бизнесе	8,00	304	100	20	20A	30	30A	
2	Computer Architecture and Operating Systems	C	Кафедра информационных технологий в бизнесе	5,00	190	56	28	28A			
3	Databases	C	Кафедра информационных технологий в бизнесе	5,00	190	56	28A	28A			
4	Software Design	C	Кафедра информационных технологий в бизнесе	8,00	304	90			58	32A	

5	Probability Theory and Mathematical Statistics	C	Кафедра информационных технологий в бизнесе	5,00	190	56	26	30A			
	Elective Professional Block (Major)			3,00	114	28	14	14			
	Seminars and Career Guidance Disciplines			3,00	114	28	14	14			
	Compulsory Seminars			3,00	114	28	14	14			
1	Project Seminar	C		3,00	114	28	14	14A			
	Minor			10,00	380	112	28	28	28	28	
1	Minor	E		10,00	380	112	28	28A	28	28A	
	English										
	Optional Courses										
1	English	O		6,00	228	104	28	32	44A		Foreign language, Credits only to the cumulative rating
	General Courses				200	144	28	32	44	40	
	Core General Courses				200	144	28	32	44	40	
1	Physical Training	C	Department of Physical Training		200	144	28	32A	44	40A	
	Internship			5,00	190	2				2	
	Project Internship			5,00	190	2				2	
1	Term Paper	C		5,00	190	2				2A	

Curriculum agreed:

Academic Supervisor	LANIN V.V.	25.04.2023
Dean	ISOPEKUL O.Y.	26.04.2023
Deputy Director	ZAGORODNOVA E.P.	26.04.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	02.05.2023

* Subject type:

Compulsory course

C

Elective course

E

Optional course

O