



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 38.04.05 Business Informatics
Educational Programme "Business Informatics"

Trajectories: "Agile Organization Architecture", "Healthcare IT"

Implementing unit: Faculty of Informatics, Mathematics and Computer Sciences, HSE - Nizhny Novgorod

Years of Study: 2022/2023 - 2023/2024

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

APPROVED
15.06.2022
Vice Rector
ROSHCHIN S.Y.
Signed with EDS

Block Code	Course	Subject type	Credits	Credits by Years		Planned Educational Programme Development Results
				1	2	
	Degree Programme		120,00	60,00	60,00	
	Healthcare IT (Applied track)		105,00	45,00	60,00	
	Key Seminars		15,00	4,00	11,00	
1	Mentor's Seminar	C	15,00	4,00	11,00	GPC-5.BUI, PC-2, PC-3, UC-1
	Internship		27,00	5,00	22,00	
	Project Internship		27,00	5,00	22,00	
1	Term Paper	C	5,00	5,00		GPC-5.BUI, PC-1, UC-4
2	Work Experience Internship	C	4,00		4,00	GPC-4.BUI, GPC-5.BUI, UC-4, UC-6
3	Preparation of the Final Qualification Work	C	18,00		18,00	GPC-5.BUI, PC-1, PC-3, PC-4, UC-4
	Major		51,00	27,00	24,00	
1	Enterprise Architecture Perfecting (offered in a foreign language)	C	3,00		3,00	GPC-1.BUI, PC-4, UC-1
2	Management and Modeling in Decision Support Information Systems	C	3,00		3,00	GPC-1.BUI, PC-4, UC-1
3	Payment systems. Introduction to Cryptocurrencies and Distributed Registry Technologies	C	6,00		6,00	GPC-2.BUI, PC-4, UC-1
4	Introduction to Information Security Architecture and Management in Digital Medicine	C	3,00		3,00	GPC-2.BUI, PC-5, PC-6, UC-1, UC-2, UC-3
5	Machine Learning Algorithms in Medical Informatics	C	6,00		6,00	GPC-3.BUI, PC-5, PC-6, UC-1
6	Digital Transformation of Industrial Enterprises	C	3,00		3,00	GPC-3.BUI, UC-1
7	General Introduction to Medical Informatics	C	3,00	3,00		GPC-1.BUI, PC-5, PC-6, UC-1, UC-5
8	Health Information Exchange Standards	C	3,00	3,00		GPC-3.BUI, PC-5, PC-6, UC-1
9	Mathematics and Python for Data Analysis	C	3,00	3,00		GPC-3.BUI, PC-5, PC-6, UC-1

10	Economic and Mathematic Modeling	C	3,00	3,00		GPC-5.BUI, PC-4, UC-1
11	Building the Enterprise's IT Infrastructure	C	3,00	3,00		PC-4
12	Enterprise Architecture	C	3,00	3,00		GPC-1.BUI, PC-1, PC-4, UC-1, UC-3
13	Conceptual Modelling	C	3,00	3,00		GPC-5.BUI, PC-1, PC-4, UC-4
14	Practice of Systems Engineering	C	3,00	3,00		GPC-2.BUI, GPC-4.BUI, PC-4, UC-2, UC-4
15	Information Technologies in Decision Support Information Systems	C	3,00	3,00		GPC-5.BUI, PC-4, UC-3, UC-4
	Magolego		9,00	9,00		
1	University Pool Courses	E	9,00	9,00		PC-1, PC-2, UC-6
	Final State Certification (FSC)		3,00		3,00	
1	Final Qualification Paper	C	3,00		3,00	GPC-5.BUI, PC-1, PC-3, PC-4, UC-4
	Agile Organization Architecture (Research track)		105,00	45,00	60,00	
	Key Seminars		15,00	4,00	11,00	
1	Mentor's Seminar	C	15,00	4,00	11,00	GPC-5.BUI, PC-2, PC-3, UC-1
	Internship		27,00	5,00	22,00	
	Research Internship		27,00	5,00	22,00	
1	Term Paper	C	5,00	5,00		GPC-5.BUI, PC-1, UC-4
2	Work Experience Internship	C	4,00		4,00	GPC-4.BUI, GPC-5.BUI, UC-4, UC-6
3	Preparation of the Final Qualification Work	C	18,00		18,00	GPC-5.BUI, PC-1, PC-3, PC-4, UC-4
	Major		51,00	27,00	24,00	
1	Enterprise Architecture Perfecting (offered in a foreign language)	C	3,00		3,00	GPC-1.BUI, UC-1
2	Management and Modeling in Decision Support Information Systems	C	3,00		3,00	GPC-1.BUI, UC-1
3	Theory and Practice of Domain-Specific Languages	C	3,00		3,00	GPC-1.BUI, GPC-3.BUI, PC-5, PC-6, UC-1
4	Formal Methods of Model Validation and Verification	C	3,00		3,00	GPC-1.BUI, PC-6, UC-1
5	Payment systems. Introduction to Cryptocurrencies and Distributed Registry Technologies	C	6,00		6,00	GPC-2.BUI, PC-4, UC-1
6	Digital Transformation of Industrial Enterprises	C	3,00		3,00	GPC-3.BUI, UC-1
7	Business and Organizational Agility (offered in a foreign language)	C	3,00		3,00	GPC-1.BUI, GPC-2.BUI, GPC-3.BUI, PC-1, PC-2, PC-3, PC-4, PC-6, UC-1, UC-3, UC-5
8	Economic and Mathematic Modeling	C	3,00	3,00		GPC-5.BUI, PC-3, UC-1
9	Enterprise Architecture	C	3,00	3,00		GPC-1.BUI, PC-1, PC-3, UC-1, UC-3
10	Practice of Systems Engineering	C	3,00	3,00		GPC-2.BUI, GPC-4.BUI, PC-3, UC-2, UC-4
11	Information Technologies in Decision Support Information Systems	C	3,00	3,00		GPC-5.BUI, PC-3, UC-3, UC-4
12	Conceptual Modelling	C	3,00	3,00		GPC-5.BUI, PC-1, PC-3, UC-4
13	Building the Enterprise's IT Infrastructure	C	3,00	3,00		PC-3

14	Enterprise Architecture (Advanced Level)	C	3,00	3,00		GPC-1.BUI, PC-6, UC-1, UC-2, UC-3
15	Conceptual Modeling: Information Technologies	C	3,00	3,00		GPC-5.BUI, PC-6, UC-3, UC-4
16	System Analysis and Design: Archetypes of Systems	C	3,00	3,00		GPC-2.BUI, PC-6, UC-1
	Magolego		9,00	9,00		
1	All-university Pool MAGOLEGO Courses	E	9,00	9,00		PC-1, PC-2, UC-6
	Final State Certification (FSC)		3,00		3,00	
1	Final Qualification Paper	C	3,00		3,00	GPC-5.BUI, PC-1, PC-3, PC-4, UC-4
	General Components		15,00	15,00		
	Key Seminars					
	Internship					
	Major		15,00	15,00		
	Core Professional Block (Major)		15,00	15,00		
1	System Analysis and Organization Design	C	3,00	3,00		GPC-2.BUI, PC-3, UC-1
2	Business Rhetoric and Communication (offered in a foreign language)	C	3,00	3,00		GPC-4.BUI, PC-3, PC-4, UC-4, UC-5
3	Introduction to Business Informatics	C	3,00	3,00		GPC-1.BUI, PC-3, UC-1
4	Modern Information Technologies for Building IT Infrastructure	C	3,00	3,00		GPC-2.BUI, GPC-3.BUI, GPC-5.BUI, PC-3, UC-6
5	Strategic Management (offered in a foreign language)	C	3,00	3,00		GPC-1.BUI, GPC-3.BUI, PC-3, UC-2, UC-3
	Magolego					

Curriculum agreed:

Academic Supervisor	BAEVSKIY O.A.	08.06.2022
Dean	ASEEVA N.V.	09.06.2022
Deputy Director	FOMENKOV D.A.	09.06.2022
Head of Centre for Educational Model Design	LEPESHKIN I.A.	09.06.2022

* Subject type:

Compulsory course	C
Elective course	E