



National Research University Higher School of Economics (HSE)

Basic Curriculum

Field of study 38.04.05 Business Informatics
 Educational Programme "Business Analytics and Big Data Systems"
 Trajectories: "Business Analytics and Big Data Systems"
 Implementing unit: Graduate School of Business, HSE - Moscow

APPROVED
 06.05.2024
 Vice Rector
 ROSHCHIN S.Y.
 Signed with EDS

Years of Study: 2024/2025 - 2025/2026

Length of Programme: 2 years

Mode of Study: Full Time

Degree: Master's degree / MBA

Block Code	Course	Subject type	Credits	Credits by Years		Planned Educational Programme Development Results
				1	2	
	Degree Programme		120,00	60,00	60,00	
	Business Analytics and Big Data Systems (Applied track)		120,00	60,00	60,00	
	Key Seminars		15,00	6,00	9,00	
1	Mentor's Seminar "Developing an Individual Educational Trajectory" (offered in a foreign language)	C	6,00	3,00	3,00	GPC-5.BUI, UC-4, UC-6
2	Research Seminar "Big Data: Principles and Paradigms" (offered in a foreign language)	C	3,00	3,00		GPC-1.BUI, GPC-2.BUI, PC-4
3	Research Seminar "Latest Trends in Data Governance, Big Data Analytics & Data Architecture" (offered in a foreign language)	C	6,00		6,00	GPC-2.BUI, GPC-5.BUI
	Internship		30,00	6,00	24,00	
	Project Internship		24,00	6,00	18,00	
1	Consulting Project (offered in a foreign language)	C	6,00	6,00		GPC-2.BUI, UC-1, UC-2
2	Consulting Project (offered in a foreign language)	C	3,00		3,00	GPC-4.BUI, UC-1, UC-5
3	Final Qualification Paper Preparation (offered in a foreign language)	C	15,00		15,00	GPC-5.BUI, UC-2, UC-6
	Professional Internship		6,00		6,00	
1	Work Experience Internship (offered in a foreign language)	C	6,00		6,00	GPC-3.BUI, UC-3, UC-4
	Research Internship					
	Major		60,00	42,00	18,00	
	Basic Components		24,00	24,00		
1	Applied Data Science (offered in a foreign language)	C	3,00	3,00		PC-3, UC-2

2	Financial Management (offered in a foreign language)	C	3,00	3,00		GPC-3.BUI, PC-5, UC-5
3	Sustainable Business Management (offered in a foreign language)	C	3,00	3,00		PC-1, UC-1
4	Technological Company Value Based Management (offered in a foreign language)	C	3,00	3,00		GPC-1.BUI, PC-5, UC-1
5	Enterprise Architecture Perfecting (offered in a foreign language)	C	3,00	3,00		GPC-3.BUI, PC-1
6	Decision Analysis (offered in a foreign language)	C	6,00	6,00		GPC-4.BUI, UC-1
7	Strategic Innovation Management (offered in a foreign language)	C	3,00	3,00		GPC-1.BUI, PC-1, UC-3
	Elective Courses		36,00	18,00	18,00	
	Management module		6,00	6,00		
1	Leadership and Project Team Management (offered in a foreign language)	E	3,00	3,00		GPC-5.BUI, UC-3, UC-5
2	DevRel for Business (offered in a foreign language)	E	3,00	3,00		GPC-4.BUI, PC-2, UC-3
3	Business Rhetoric and Communication (offered in a foreign language)	E	3,00	3,00		GPC-4.BUI, UC-4
4	Cyber Law: Data, Ethics and Digital Property (offered in a foreign language)	E	3,00	3,00		UC-3, UC-4, UC-5
	Technological module		12,00	12,00		
1	Building Scoring Models Using Machine Learning Methods (offered in a foreign language)	E	6,00	6,00		GPC-3.BUI, PC-3
2	Enterprise Software Systems Development (offered in a foreign language)	E	6,00	6,00		GPC-1.BUI, PC-2
3	Distributed Data Processing (offered in a foreign language)	E	6,00	6,00		GPC-4.BUI
4	Advanced Data Management (offered in a foreign language)	E	6,00	6,00		GPC-2.BUI
	Industrial Analytics		18,00		18,00	
1	Manufacturing Data Collection and Analytics (offered in a foreign language)	E	6,00		6,00	GPC-5.BUI, PC-4
2	Big Data Based Marketing Analytics (offered in a foreign language)	E	6,00		6,00	GPC-4.BUI, PC-5
3	Neural Networks and Deep Learning (offered in a foreign language)	E	6,00		6,00	GPC-3.BUI, PC-4
4	Predictive Modelling (offered in a foreign language)	E	6,00		6,00	GPC-3.BUI, PC-3
5	Cloud Technologies (offered in a foreign language)	E	6,00		6,00	GPC-1.BUI, PC-1
6	Recommender Systems (offered in a foreign language)	E	6,00		6,00	GPC-2.BUI, PC-2
	Magolego		12,00	6,00	6,00	
1	All-University Pool MagoLego Courses (offered in a foreign language)	E	12,00	6,00	6,00	PC-2, PC-4, UC-2, UC-3, UC-4, UC-5

	Final State Certification (FSC)		3,00		3,00	
1	Final Qualification Paper (offered in a foreign language)	C	3,00		3,00	GPC-5.BUI, UC-4

Curriculum agreed:

Academic Supervisor	BEKLARYAN A.L.	25.04.2024
Dean	GABRIELOV A.O.	06.05.2024
Head of Centre for Educational Model Design	LEPESHKIN I.A.	06.05.2024

* Subject type:

Compulsory course	C
Elective course	E