

## National Research University Higher School of Economics (HSE)

## Curriculum

Field of study 01.04.02 Applied Mathematics and Informatics Educational Programme "Data Analysis for Biology and Medicine"

Trajectories: "Data Analysis in Biology and Medicine"
Implementing unit: Faculty of Computer Science, HSE - Moscow

2 nd, 2023/2024 academic year

APPROVED 05.04.2023

Vice Rector

ROSHCHIN S.Y. Signed with EDS

Length of Programme: 2 years

Years of Study: 2022/2023 - 2023/2024

Mode of Study: Full Time Degree: Master's degree / MBA

							Allowed as a Constant House				
							Allocation of Contact Hours				
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Programme			60,00	2 280	292	140	140	8	4	
	Data Analysis in Biology and Medicine (General track)			60,00 24,00	2 280	292	140	140	8	4	
	Major				912	224	112	112			
	2 year 2 semester			24,00	912	224	112	112			
1	Bioinformatics for Next Generation Sequencing		Department of Big Data and Information Retrieval	6,00	228	56	28	28A			
2	Methods for modeling the 3-D structure of proteins	С	Joint Department of Mathematical Methods in System Analysis with RAS Institute of System Analysis	6,00	228	56	28	28A			
3	Molecular Modeling	С	Department of Big Data and Information Retrieval	6,00	228	56	28	28A			
4	Systems Biology and Personalized Medicine	С	Department of Big Data and Information Retrieval	6,00	228	56	28	28A			
	Final State Certification (FSC)				114	2				2	
1	Final Qualification Paper	С		3,00	114	2				2A	
	Key Seminars			6,00	228	64	28	28	8		
1	Mentor's Seminar "Biomedical Data Analysis"	С	Department of Complex Systems Modelling Technologies	6,00	228	64	28	28	8A		
	Magolego			9,00	342						
1		E		9,00	342						
	Internship				684	2				2	
	Research Internship				684	2				2	
1	Graduation Thesis	С		18,00	684	2				2	

## Curriculum agreed:

Academic Supervisor POPTSOVA M.S. 28.03.2023

Dean ARZHANTSEV I.V. 28.03.2023

Head of Centre for Educational Model Design LEPESHKIN I.A. 03.04.2023

\* Subject type:

Compulsory course C Elective course E