



National Research University Higher School of Economics (HSE)

Curriculum  
 Field of study 01.03.01 Mathematics  
 Educational Programme "Mathematics"  
 Implementing unit: Faculty of Mathematics, HSE - Moscow  
 2 nd, 2022/2023 academic year

APPROVED  
 18.05.2022  
 Vice Rector  
 ROSHCHIN S.Y.  
 Signed with EDS

Length of Programme: 4 years  
 Years of Study: 2021/2022 - 2024/2025  
 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	
<b>Degree Programme</b>				<b>63,00</b>	<b>2 394</b>	<b>1 033</b>	<b>196</b>	<b>196</b>	<b>333</b>	<b>312</b>	
<b>Data Culture</b>						<b>3</b>			<b>3</b>		
1	Independent Programming Test. Intermediate	E	Center for Support and Monitoring of Degree Programs			3			3A		Foreign language
<b>Major</b>				<b>47,00</b>	<b>1 786</b>	<b>810</b>	<b>144</b>	<b>144</b>	<b>272</b>	<b>254</b>	
<b>Core Professional Block (Major)</b>				<b>20,00</b>	<b>760</b>	<b>374</b>	<b>72</b>	<b>72</b>	<b>120</b>	<b>110</b>	
<b>Subject Areas</b>				<b>20,00</b>	<b>760</b>	<b>374</b>	<b>72</b>	<b>72</b>	<b>120</b>	<b>110</b>	
<b>Analysis</b>				<b>15,00</b>	<b>570</b>	<b>294</b>	<b>32</b>	<b>32</b>	<b>120</b>	<b>110</b>	
1	Fourier Analysis	C	Faculty of Mathematics	5,00	190	104			54	50A	
2	Measure and Integral	C	Faculty of Mathematics	5,00	190	64	32	32A			
3	Theory of Complex Functions	C	Faculty of Mathematics	5,00	190	126			66	60A	
<b>Differential Equations and Dynamical Systems</b>				<b>5,00</b>	<b>190</b>	<b>80</b>	<b>40</b>	<b>40</b>			
1	Differential Equations	C	Faculty of Mathematics	5,00	190	80	40	40A			
<b>Elective Professional Block (Major)</b>				<b>27,00</b>	<b>1 026</b>	<b>436</b>	<b>72</b>	<b>72</b>	<b>152</b>	<b>144</b>	
<b>Курсы по выбору из списка</b>				<b>5,00</b>	<b>190</b>	<b>74</b>	<b>16</b>	<b>16</b>	<b>22</b>	<b>20</b>	
1	Algebra	E	Faculty of Mathematics	5,00	190	96	48	48A			
2	Introduction into Python	E	Department of Big Data and Information Retrieval	5,00	190	26	12	14A			Online Course
<b>Курсы по выбору из этого или из общефакультетского списка</b>				<b>9,00</b>	<b>342</b>	<b>74</b>	<b>16</b>	<b>16</b>	<b>22</b>	<b>20</b>	
1	Introduction to Galois Theory	E	Faculty of Mathematics	6,00	228	32	16	16A			Online Course, Foreign language
2	-	E		9,00	342	74	16A	16A	22A	20A	
3	Jacobi modular forms: 30 ans apres	E	Faculty of Mathematics	3,00	114	6				6A	Online Course, Foreign language
<b>Научно-исследовательские семинары по выбору</b>				<b>5,00</b>	<b>190</b>	<b>104</b>			<b>54</b>	<b>54</b>	
1	Research Seminar "Logic and Algorithms"	E	Faculty of Mathematics	5,00	190	104			54	50A	

2	Research Seminar "Mechanics"	E	Faculty of Mathematics	5,00	190	104			54	50A	
<b>Research seminar</b>				<b>8,00</b>	<b>304</b>	<b>184</b>	<b>40</b>	<b>40</b>	<b>54</b>	<b>50</b>	
1	Research Seminar "Smooth Manifolds"	C	Faculty of Mathematics	8,00	304	184	40	40A	54	50A	
<b>Minor</b>				<b>10,00</b>	<b>380</b>	<b>74</b>	<b>16</b>	<b>16</b>	<b>22</b>	<b>20</b>	
1	Minor	C		10,00	380	74	16	16A	22	20A	
<b>English</b>											
<b>Optional Courses</b>											
1	English	O		6,00	228	104	28	32A	44		Foreign language, Credits only to the cumulative rating
<b>General Courses</b>				<b>1,00</b>	<b>38</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	
<b>Core General Courses</b>				<b>1,00</b>	<b>38</b>	<b>144</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	
1	Physical Training	C	Department of Physical Training	1,00	38	144	36	36	36	36A	
<b>Internship</b>				<b>5,00</b>	<b>190</b>	<b>2</b>				<b>2</b>	
<b>Research Internship</b>				<b>5,00</b>	<b>190</b>	<b>2</b>				<b>2</b>	
1	Term Paper	C		5,00	190	2				2A	

**Curriculum agreed:**

Academic Supervisor	KLIMENKO A.V.	16.05.2022
Dean	SKRIPCHENKO A.S.	17.05.2022
Head of Degree Programmes Development Office	MAMONOVA M.A.	18.05.2022

\* Subject type:

Compulsory course  
 Elective course  
 Optional course

C  
 E  
 O