



National Research University Higher School of Economics (HSE)

Curriculum

Field of study 01.03.04 Applied Mathematics

Educational Programme "Applied Mathematics"

Specializations: "Applied methods of stochastic analysis",
"Mathematical and computer methods for modern technologies",
"Mathematical modelling, control and information processing"

Implementing unit: Tikhonov Moscow Institute of Electronics and
Mathematics, HSE - Moscow

2 nd, 2022/2023 academic year

APPROVED

19.04.2022

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	
Degree Programme				60,00	1 900	1 092	212	268	306	306	
Major				39,00	1 482	694	130	162	202	200	
Core Professional Block (Major)				37,00	1 406	686	124	162	202	198	
Subject Areas				37,00	1 406	686	124	162	202	198	
Natural Sciences and Engineering				8,00	304	152	36	36	40	40	
1	Theoretical Mechanics	C	Department of Applied Mathematics	4,00	152	80			40A	40A	
2	Physics	C	School of Electronic Engineering	4,00	152	72	36	36A			
Real, Complex and Functional Analysis				13,00	494	230	28	32	84	86	
1	Calculus	C	Department of Applied Mathematics	5,00	190	60	28	32A			
2	Theory of Complex Functions	C	Department of Applied Mathematics	4,00	152	90			44	46A	
3	Functional Analysis	C	Department of Applied Mathematics	4,00	152	80			40	40A	
Differential Equations				4,00	152	74	38	36			
1	Differential Equations	C	Department of Applied Mathematics	4,00	152	74	38A	36A			
Programming				6,00	228	110	22	24	32	32	
1	Algorithmization and Programming	C	Department of Applied Mathematics	6,00	228	110	22A	24	32	32A	Online Course
Probability Theory and Mathematical Statistics				6,00	228	120		34	46	40	
1	Probability Theory and Mathematical Statistics	C	Department of Applied Mathematics	6,00	228	120		34	46A	40A	

