



National Research University Higher School of Economics (HSE)

Curriculum
Field of study 09.04.04 Software Engineering
Educational Programme "System Programming"
Trajectories: "System Programming"

Implementing unit: Faculty of Computer Science, HSE - Moscow
2 nd, 2023/2024 academic year

APPROVED
17.03.2023
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

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	2 280	206	126	82	10	4	
	System Programming (General track)			60,00	2 280	206	126	82	10	4	
	Major			21,00	798	180	120	76			
1	Compiler Technologies 2	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	3,00	114	28	28A				
2	Machine-dependent Compiler Optimizations	E	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	3,00	114	28	28A				
3	Parallel programming	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	56	28	28A			
4	Theoretical Cryptography	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	56	28	28A			
5	Functional Programming	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	40	20	20A			
	Final State Certification (FSC)			3,00	114	2				2	
1	Final Qualification Paper	C		3,00	114	2				2A	
	Key Seminars			9,00	342	20	4	6	10		

1	Mentor's Seminar	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	9,00	342	20	4	6	10A		
	Magolego			9,00	342						
1	All-university Pool MAGOLEGO Courses	E		9,00	342						
	Internship			18,00	684	4	2			2	
	Research Internship			18,00	684	2				2	
1	Preparation of Graduation Thesis	C		18,00	684	2				2	
	Professional Internship					2	2				
1	Work Experience Internship	C				2	2A				

Curriculum agreed:

Academic Supervisor	PETRENKO A.K.	01.03.2023
Dean	ARZHANTSEV I.V.	01.03.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	16.03.2023

* Subject type:

Compulsory course

C

Elective course

E