



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

1 st, 2023/2024 academic year

APPROVED

16.05.2023

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years

Years of Study: 2023/2024 - 2024/2025

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	422	92	120	104	106	
	System Programming (General track)			60,00	2 280	422	92	120	104	106	
	Major			39,00	1 482	388	84	112	96	96	
	Compulsory Disciplines 1 Academic Year			39,00	1 482	388	84	112	96	96	
1	Software Verification	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	56	28	28A			
2	Compiler Technologies 1	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	64			32	32A	
3	Computer Networks and Telecommunications	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	56	28	28A			
4	Operating System Kernel Construction	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	64			32	32A	
5	Advanced Database Management Systems	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	64			32	32A	
6	Applied System Analysis	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	3,00	114	28		28A			

7	Formal Methods in Software Engineering	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	56	28	28A			
	Key Seminars			6,00	228	32	8	8	8	8	
1	Mentor's Seminar	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	32	8	8	8	8A	
	Magolego			6,00	228						
1	All-university Pool MAGOLEGO Courses	E		6,00	228						
	Internship			9,00	342	2				2	
	Project Internship			6,00	228	2				2	
1	Курсовая работа	C		6,00	228	2				2A	
	Professional Internship			3,00	114						
1	Work Experience Internship	C		3,00	114						

Curriculum agreed:

Academic Supervisor	PETRENKO A.K.	05.05.2023
Dean	ARZHANTSEV I.V.	05.05.2023
Head of Centre for Educational Model Design	LEPESHKIN I.A.	16.05.2023

* Subject type:

Compulsory course

C

Elective course

E