



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, 2022/2023 academic year

APPROVED  
18.05.2022  
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	
	<b>Degree Programme</b>			<b>60,00</b>	<b>2 280</b>	<b>406</b>	<b>84</b>	<b>128</b>	<b>86</b>	<b>108</b>	
	<b>System Programming (General track)</b>			<b>60,00</b>	<b>2 280</b>	<b>406</b>	<b>84</b>	<b>128</b>	<b>86</b>	<b>108</b>	
	<b>Major</b>			<b>39,00</b>	<b>1 482</b>	<b>372</b>	<b>84</b>	<b>116</b>	<b>86</b>	<b>86</b>	
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			Online Course
2	Compiler Technologies	C	Joint System Programming Department with Institute for System Programming of the Russian Academy of Sciences	6,00	228	44			22	22A	
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	32		32A			

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			
	<b>Key Seminars</b>			<b>6,00</b>	<b>228</b>	<b>32</b>		<b>12</b>		<b>20</b>	
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	
	<b>Magolego</b>			<b>6,00</b>	<b>228</b>						
1	University Pool Courses (MAGOLEGO)	E		6,00	228						
	<b>Internship</b>			<b>9,00</b>	<b>342</b>	<b>2</b>				<b>2</b>	
	<b>Project Internship</b>			<b>3,00</b>	<b>114</b>	<b>2</b>				<b>2</b>	
1	Term Paper	C		3,00	114	2				2A	
	<b>Professional Internship</b>			<b>6,00</b>	<b>228</b>						
1	Work Experience Internship	C		6,00	228						

**Curriculum agreed:**

Academic Supervisor	PETRENKO A.K.	05.05.2022
Dean	ARZHANTSEV I.V.	05.05.2022
Head of Degree Programmes Development Office	MAMONOVA M.A.	13.05.2022

\* Subject type:

Compulsory course

C

Elective course

E