

National Research University Higher School of Economics (HSE)

Curriculum

Field of study 11.04.02 Infocommunication Technologies and Systems

Educational Programme "Internet of Things and Cyber-physical Systems"

Trajectories: "Internet of Things" Implementing unit: Tikhonov Moscow Institute of Electronics and Mathematics, HSE - Moscow

1 st, 2024/2025 academic year

APPROVED 10.04.2024

Vice Rector

ROSHCHIN S.Y.

Signed with EDS

Length of Programme: 2 years Years of Study: 2024/2025 - 2025/2026

Mode of Study: Full Time

Degree: Master's degree / MBA

						A	llocation of (Contact Hour			
Block Code	Course	Subject type	Department	Credits	Total Academic Hours	Contact Hours	1	2	3	4	Additional Information
	Degree Programme			60,00	2 280	444	34	100	172	138	
	Internet of Things (Applied track)	60,00	2 280	444	34	100	172	138			
	Major	39,00	1 482	352	16	80	146	110			
	Дисциплины по выбору	3,00	114	16		16					
1	Product management and economics of IoT/CPS	E	School of Electronic Engineering	3,00	114	30		30A			
2	Managing Distributed IoT Network	E	School of Electronic Engineering	3,00	114	16		16A			
	Обязательные дисциплины программы				1 368	336	16	64	146	110	
1	loT/CPS Hardware	С	School of Electronic Engineering	6,00	228	60			30	30A	
2	Introduction to IoT/CPS	С	School of Electronic Engineering	3,00	114	16	16A				
3	Sensor Systems	С	School of Electronic Engineering	3,00	114	40		40A			
4	Cyber Security IoT/CPS	С	School of Electronic Engineering	6,00	228	60			30	30A	
5	Ensuring interaction of IoT system elements, interfaces and protocols	С	School of Electronic Engineering	6,00	228	60			30	30A	
6	1	С	School of Electronic Engineering	6,00	228	40			20	20A	
7	Network Technologies in Machine-to-Machine (M2M) Communications	С	School of Electronic Engineering	6,00	228	60		24	36A		
	Key Seminars				342	90	18	20	26	26	_

1	Internet of Things (mentor workshop)	С	School of Electronic Engineering	6,00	228	24	6	6	6	6A	
2	Project Seminar	С	School of Electronic Engineering	3,00	114	66	12	14	20	20A	
	Magolego				228						
1	All-university Pool MAGOLEGO Courses	С		6,00	228						
	Internship			6,00	228	2				2	
	Project Internship			6,00	228	2				2	
1	Project Activity	С		6,00	228	2		·	·	2A	

Curriculum agreed:

Academic Supervisor IVANOV I.A. 28.02.2024

Dean KROUK E.A. 01.03.2024

Head of Centre for

Educational Model Design LEPESHKIN I.A. 10.04.2024

* Subject type:

Compulsory course C Elective course E