



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

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	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				36,00	1 368	336	16	64	146	110	
1	IoT/CPS Hardware	C	School of Electronic Engineering	6,00	228	60			30	30A	
2	Introduction to IoT/CPS	C	School of Electronic Engineering	3,00	114	16	16A				
3	Sensor Systems	C	School of Electronic Engineering	3,00	114	40		40A			
4	Cyber Security IoT/CPS	C	School of Electronic Engineering	6,00	228	60			30	30A	
5	Ensuring interaction of IoT system elements, interfaces and protocols	C	School of Electronic Engineering	6,00	228	60			30	30A	
6	IoT/CPS software development	C	School of Electronic Engineering	6,00	228	40			20	20A	
7	Network Technologies in Machine-to-Machine (M2M) Communications	C	School of Electronic Engineering	6,00	228	60		24	36A		
Key Seminars				9,00	342	90	18	20	26	26	

