

National Research University Higher School of Economics (HSE)

Curriculum
Field of study 10.05.01 "Cyber Security"
Educational Programme "Cyber Security"

APPROVED by
Vice Rector

Tikhonov Moscow Institute of Electronics and Mathematics, Moscow
1st, 2020/2021 year of study

"___" _____ 20__.

Length of Programme: 6 years
Years of Study: 2020/2021 - 2025/2026
Mode of Study: Full Time
Degree: Specialist's Degree

Number of Students: 90
Number of Groups: 3

| Block Code | Course | Department | Credits | Total Academic Hours | Contact Hours | Allocation of Contact Hours | | | | Additional Information |
|------------|-------------------------------------|-----------------------------------|-----------|----------------------|---------------|-----------------------------|------------|------------|------------|------------------------|
| | | | | | | 1 | 2 | 3 | 4 | |
| | (!! | !!) | 60 | 2480 | 1142 | 256 | 276 | 338 | 272 | |
| 1 | Block 1. Courses (Modules) | | 60 | 2480 | 1142 | 256 | 276 | 338 | 272 | |
| . . | General Programme Part | | 15 | 770 | 338 | 88 | 78 | 96 | 76 | |
| 1 | Safe Living Basics | (!) | 1 | 38 | 18 | 18A | | | | |
| 2 | Physical Training | Department of Physical Training | | 200 | 144 | 36 | 36 | 36 | 36A | |
| 4 | Russian History | School of History | 3 | 114 | 28 | | 14 | 14A | | |
| 5 | Foreign Language (English) | School of Foreign Languages | 8 | 304 | 144 | 32 | 28A | 44 | 40A | |
| 7 | Data-Culture | Department of Computer Security | 3 | 114 | 4 | 2 | | 2A | | |
| . | Professional Programme Part (Major) | | 45 | 1710 | 804 | 168 | 198 | 242 | 196 | |
| . . | Basic Components | | 42 | 1596 | 748 | 168 | 170 | 214 | 196 | |
| 1 | Calculus | Department of Applied Mathematics | 10 | 380 | 180 | 40 | 40A | 50 | 50A | |
| 2 | Algebra | Department of Applied Mathematics | 6 | 228 | 112 | 24 | 24A | 32 | 32A | |
| 3 | Geometry | Department of Applied Mathematics | 3 | 114 | 54 | 26 | 28A | | | |
| 8 | Physics | School of Electronic Engineering | 5 | 190 | 72 | | | 36 | 36A | |
| 9 | Computer Science | Department of Computer Security | 4 | 152 | 60 | 30 | 30A | | | |
| 10 | Programming Languages | Department of Applied Mathematics | 11 | 418 | 216 | 48 | 48 | 64A | 56 | |
| 11 | Hardware Computer Technology | School of Electronic Engineering | 3 | 114 | 52 | | | 32 | 20A | |
| 16 | English Language Test (1st year) | School of Foreign Languages | 0 | | 2 | | | | 2A | |

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| | (!! , !!) | | 3 | 114 | 56 | | 28 | 28 | | |
| 1 | Introduction to Number Theory | Department of Computer Security | 3 | 114 | 56 | | 28 | 28A | | |

A Interim assessment