

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, 2021/2022 year of study

"__" _____ 20__.

Length of Programme: 6 years
Years of Study: 2021/2022 - 2026/2027
Mode of Study: Full Time
Degree: Specialist's Degree

Number of Students: 95
Number of Groups: 4

| Block Code | Course | Department | Credits | Total Academic Hours | Contact Hours | Allocation of Contact Hours | | | | Additional Information |
|------------|-------------------------------------|-----------------------------------|-----------|----------------------|---------------|-----------------------------|------------|------------|------------|------------------------|
| | | | | | | 1 | 2 | 3 | 4 | |
| | (!! | !!) | 60 | 2480 | 1023 | 244 | 262 | 278 | 283 | |
| | Major | | 52 | 1976 | 810 | 168 | 202 | 242 | 198 | |
| | Core Professional Block (Major) | | 48 | 1824 | 746 | 168 | 170 | 210 | 198 | |
| | (!! | !!) | 26 | 988 | 418 | 90 | 92 | 118 | 118 | |
| 1 | Calculus | Department of Applied Mathematics | 10 | 380 | 180 | 40 | 40A | 50 | 50A | |
| 2 | Algebra | Department of Applied Mathematics | 7 | 266 | 112 | 24 | 24A | 32 | 32A | |
| 3 | Geometry | Department of Applied Mathematics | 4 | 152 | 54 | 26 | 28A | | | |
| 4 | Physics | School of Electronic Engineering | 5 | 190 | 72 | | | 36 | 36A | |
| | (!! | !!) | 22 | 836 | 328 | 78 | 78 | 92 | 80 | |
| 5 | Computer Science | Department of Computer Security | 5 | 190 | 60 | 30 | 30A | | | |
| 6 | Programming Languages | Department of Applied Mathematics | 13 | 494 | 216 | 48 | 48A | 60 | 60A | |
| 7 | Hardware Computer Technology | School of Electronic Engineering | 4 | 152 | 52 | | | 32 | 20A | |
| | Elective Professional Block (Major) | | 4 | 152 | 64 | | 32 | 32 | | |
| 8 | Introduction to Number Theory | Department of Computer Security | 4 | 152 | 64 | | 32 | 32A | | |
| | (!! | !!) | 5 | 390 | 192 | 68 | 52 | 36 | 36 | |
| | Core General Courses | | 1 | 238 | 162 | 54 | 36 | 36 | 36 | |
| 9 | Safe Living Basics | (!) | 1 | 38 | 18 | 18A | | | | |
| 10 | Physical Training | Department of Physical Training | 0 | 200 | 144 | 36 | 36 | 36 | 36A | |
| | (!! | !!) | 4 | 152 | 30 | 14 | 16 | | | |

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|----|---|--|----------|------------|-----------|----------|----------|----------|-----------|--|
| 11 | History | Department of Humanities | 4 | 152 | 30 | 14 | 16A | | | |
| | English | | 0 | 0 | 2 | 0 | 0 | 0 | 46 | |
| 12 | English Language Integrative Exam (offered in English) | School of Foreign Languages | 0 | 0 | 2 | | | | 2A | |
| | Optional Courses | | 0 | 0 | 0 | 0 | 0 | 0 | 44 | |
| 13 | (| | 8 | 304 | 144 | 24 | 32A | 44 | 44A | |
| | Data Culture | | 3 | 114 | 19 | 8 | 8 | 0 | 3 | |
| 14 | Data-Culture | Department of Applied Mathematics | 3 | 114 | 16 | 8 | 8A | | | |
| 15 | Independent Digital Literacy Test | Center for Support and Monitoring of Degree Programs | 0 | 0 | 3 | | | | 3A | |

A Interim assessment