Specialty Program: 5 years

Institute: Institute of Electronic Engineering & Instrumentation

Study Program: Information Security of Automated Systems

Specialization: Creation of Automated Systems in Protected Execution

Language of Training: Russian

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **Subject** | **Semester** | **Hours** | **Credits** |
| S.1.1.1 | Philosophy | 5 | 108 | 3 |
| S.1.1.2 | History of the Country | 1 | 108 | 3 |
| S.1.1.3 | Foreign language | 1 | 108 | 3 |
| S.1.1.3 | Foreign language | 2 | 108 | 3 |
| S.1.1.3 | Foreign language | 3 | 108 | 3 |
| S.1.1.4 | The Rule of law: history and modernity | 3 | 108 | 3 |
| S.1.1.5 | Economy | 3 | 108 | 3 |
| S.1.1.6 | Fundamentals of management activity | 7 | 108 | 3 |
| S.1.1.7 | Algebra and geometry | 1 | 324 | 9 |
| S.1.1.8 | Mathematical analysis | 1 | 144 | 4 |
| S.1.1.8 | Mathematical analysis | 2 | 180 | 5 |
| S.1.1.9 | Discrete mathematics | 2 | 180 | 5 |
| C.1.1.10 | Probability theory and mathematical statistics | 3 | 108 | 3 |
| C.1.1.10 | Probability theory and mathematical statistics | 4 | 144 | 4 |
| S.1.1.11 | Mathematical logic and theory of algorithms | 6 | 108 | 3 |
| S.1.1.12 | Information theory | 5 | 108 | 3 |
| S.1.1.13 | Computer science | 1 | 144 | 4 |
| S.1.1.14 | Physics | 2 | 144 | 4 |
| S.1.1.14 | Physics | 3 | 180 | 5 |
| S.1.1.14 | Physics | 4 | 180 | 5 |
| S.1.1.15 | Operating safety | 9 | 108 | 3 |
| S.1.1.16 | Programming languages | 1 | 144 | 4 |
| S.1.1.16 | Programming languages | 2 | 180 | 5 |
| S.1.1.17 | Programming technologies and methods | 3 | 180 | 5 |
| S.1.1.17 | Programming technologies and methods | 4 | 180 | 5 |
| S.1.1.18 | Electronics and circuitry | 5 | 216 | 6 |
| S.1.1.19 | Operating system security | 4 | 216 | 6 |
| S.1.1.20 | Computer network security | 7 | 180 | 5 |
| S.1.1.21 | Database system security | 7 | 216 | 6 |
| S.1.1.22 | Fundamentals of information security | 2 | 72 | 2 |
| S.1.1.23 | Technical protection of information | 8 | 216 | 6 |
| S.1.1.24 | Organization of computers and computer systems | 5 | 180 | 5 |
| S.1.1.24 | Organization of computers and computer systems | 6 | 144 | 4 |
| S.1.1.25 | Cryptographic methods of information protection | 6 | 216 | 6 |
| S.1.1.26 | Networks and information transmission systems | 6 | 180 | 5 |
| S.1.1.27 | Organizational and legal provision of information security | 8 | 108 | 3 |
| S.1.1.28 | Software and hardware for information security | 8 | 252 | 7 |
| S.1.1.28 | Software and hardware for information security | 9 | 108 | 3 |
| S.1.1.29 | Development and operation of secure automated systems | 7 | 144 | 4 |
| S.1.1.30 | Information Security Management | 9 | 108 | 3 |
| S.1.1.31 | Descriptive geometry and engineering graphics | 3 | 72 | 2 |
| S.1.1.32 | Computer graphics | 3 | 108 | 3 |
| S.1.1.33 | Physical culture | 1 | 72 | 2 |
| S.1.1.34 | Metrology and electrical and radio measurements | 9 | 108 | 3 |
| S.1.1.35 | Fundamentals of reliability theory | 7 | 108 | 3 |
| S.1.1.36 | Fundamentals of radio engineering | 5 | 108 | 3 |
| S.1.1.37 | Threats to information security of automated systems | 7 | 108 | 3 |
| S.1.1.38 | Creation of automated systems in protected execution | 9 | 144 | 4 |
| S.1.1.39 | Evaluation of information security of automated systems in protected execution | 9 | 108 | 3 |
| S.1.2.1 | History of science and technology | 2 | 72 | 2 |
| S.1.2.2 | Philosophy of Science and Technology | 6 | 72 | 2 |
| S.1.2.3 | Theory of functions of a complex variable | 4 | 108 | 3 |
| S.1.2.4 | Computational mathematics | 5 | 144 | 4 |
| S.1.2.4 | Computational mathematics | 6 | 144 | 4 |
| S.1.2.5 | Ensuring the security of personal data during their processing in personal data information systems | 8 | 144 | 4 |
| S.1.2.6 | Comprehensive information security of automated systems | 9 | 216 | 6 |
| S.1.2.7 | Security of secure computer networks | 8 | 180 | 5 |
| S.1.3.1.1 | Psychology | 2 | 72 | 2 |
| S.1.3.1.2 | Engineering Psychology | /2 | /72 | /2 |
| S.1.3.2.1 | Differential equations | 3 | 108 | 3 |
| S.1.3.2.2 | Differential equations and fundamentals of numerical methods | /3 | /108 | /3 |
| S.1.3.3.1 | Multimedia technologies and systems | 4 | 72 | 2 |
| S.1.3.3.2 | Image Processing | /4 | /72 | /2 |
| S.1.3.3.3 | Military training | /4 | /72 | /2 |
| S.1.3.4.1 | Processing of experimental data on a computer | 5 | 72 | 2 |
| S.1.3.4.2 | Mathematical modeling | /5 | /72 | /2 |
| S.1.3.4.3 | Military training | /5 | /72 | /2 |
| S.1.3.5.1 | Foreign language for professional communication | 4 | 72 | 2 |
| S.1.3.5.1 | Foreign language for professional communication | 5 | 108 | 3 |
| S.1.3.5.2 | Technical translation | /4 | /72 | /2 |
| S.1.3.5.2 | Technical translation | /5 | /108 | /3 |
| S.1.3.5.3 | Military training | /4 | /72 | /2 |
| S.1.3.5.3 | Military training | /5 | /72 | /2 |
| S.1.3.6.1 | UNIX operating system | 6 | 144 | 4 |
| S.1.3.6.2 | Solving problems in Windows OS | /6 | /144 | /4 |
| S.1.3.6.3 | Military training | /6 | /180 | /5 |
| S.1.3.7.1 | Parallel systems and their programming | 7 | 216 | 6 |
| S.1.3.7.2 | Integrated systems | /7 | /216 | /6 |
| S.1.3.7.3 | Military training | /7 | /180 | /5 |
| S.1.3.8.1 | Ensuring information security of banking system organizations | 8 | 72 | 2 |
| S.1.3.8.2 | Security of customers of remote banking systems | /8 | /72 | /2 |
| S.1.3.8.3 | Military training | /8 | /108 | /3 |
| S.1.3.9.1 | Information security of Internet applications | 9 | 180 | 5 |
| S.1.3.9.2 | Methods of digital signal processing | /9 | /180 | /5 |
| S.1.3.10.1 | Microprocessor technology | 10 | 216 | 6 |
| S.1.3.10.2 | Programming of controllers | /10 | /216 | /6 |
| S.1.3.11.1 | Sports games | 2 | 82 | 0 |
| S.1.3.11.1 | Sports games | 3 | 82 | 0 |
| S.1.3.11.1 | Sports games | 4 | 82 | 0 |
| S.1.3.11.1 | Sports games | 5 | 38 | 0 |
| S.1.3.11.1 | Sports games | 6 | 44 | 0 |
| S.1.3.11.2 | Recreational physical culture | /2 | /82 | 0 |
| S.1.3.11.2 | Recreational physical culture | /3 | /82 | 0 |
| S.1.3.11.2 | Recreational physical culture | /4 | /82 | 0 |
| S.1.3.11.2 | Recreational physical culture | /5 | /38 | 0 |
| S.1.3.11.2 | Recreational physical culture | /6 | /44 | 0 |
|  | **Total** |  | **9832** | **264** |