Specialty Program: 5 years

Institute: Institute of Electronic Engineering & Instrumentation

Study Program: Special Organizational and Technical Systems

Specialization: Information Technologies and Software in Special Organizational and Technical Systems

Language of Training: Russian

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **№** | **Subject** | **Semester** | **Hours** | **Credits** |
| S.1.1.1 | History | 1 | 72 | 2 |
| S.1.1.1 | History | 2 | 72 | 2 |
| S.1.1.2 | Philosophy | 5 | 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 | 72 | 2 |
| S.1.1.4 | The rule of law and modernity | 1 | 72 | 2 |
| S.1.1.5 | Psychology | 3 | 72 | 2 |
| C.1.1.6 | Ecology | 7 | 72 | 2 |
| C.1.1.7 | Economy | 3 | 108 | 3 |
| C.1.1.8 | Mathematics | 1 | 180 | 5 |
| C.1.1.8 | Mathematics | 2 | 180 | 5 |
| C.1.1.8 | Mathematics | 3 | 180 | 5 |
| C.1.1.9 | Physics | 1 | 144 | 4 |
| C.1.1.9 | Physics | 2 | 144 | 4 |
| C.1.1.9 | Physics | 3 | 144 | 4 |
| S.1.1.10 | Computer science | 1 | 144 | 4 |
| S.1.1.11 | Engineering graphics (drawing) | 1 | 72 | 2 |
| S.1.1.12 | Descriptive geometry and computer graphics | 2 | 108 | 3 |
| S.1.1.13 | Theoretical foundations of electrical engineering | 3 | 144 | 4 |
| S.1.1.13 | Theoretical foundations of electrical engineering | 4 | 144 | 4 |
| S.1.1.14 | Electronics | 5 | 144 | 4 |
| S.1.1.14 | Electronics | 6 | 108 | 3 |
| S.1.1.15 | Metrology, standardization and certification | 4 | 108 | 3 |
| S.1.1.16 | Operating safety | 6 | 108 | 3 |
| S.1.1.17 | Theoretical mechanics | 5 | 144 | 4 |
| S.1.1.18 | Programming | 1 | 180 | 5 |
| S.1.1.18 | Programming | 2 | 144 | 4 |
| S.1.1.19 | Theory of automatic control | 5 | 144 | 4 |
| S.1.1.19 | Theory of automatic control | 6 | 180 | 5 |
| S.1.1.20 | Theory of discrete systems | 4 | 144 | 4 |
| S.1.1.21 | Modeling of systems | 7 | 180 | 5 |
| S.1.1.22 | Computational mathematics | 4 | 144 | 4 |
| S.1.1.23 | Computing machines, systems and networks | 4 | 144 | 4 |
| S.1.1.24 | Microprocessors and microcontrollers | 5 | 144 | 4 |
| S.1.1.24 | Microprocessors and microcontrollers | 6 | 180 | 5 |
| S.1.1.25 | Network technologies and telecommunications | 5 | 180 | 5 |
| S.1.1.26 | Methods of information protection | 7 | 144 | 4 |
| S.1.1.27 | Technical means of automation and control | 8 | 216 | 6 |
| S.1.1.28 | Design of automated control and information processing systems | 9 | 180 | 5 |
| S.1.1.29 | Digital automatic control systems | 7 | 108 | 3 |
| S.1.1.30 | Process management | 9 | 216 | 6 |
| S.1.1.31 | Decision theory | 7 | 108 | 3 |
| S.1.1.32 | Data processing methods | 2 | 144 | 4 |
| S.1.1.32 | Data processing methods | 3 | 144 | 4 |
| S.1.1.33 | Real-time systems | 9 | 144 | 4 |
| S.1.1.34 | Physical culture and sports | 1 | 72 | 2 |
| S.1.2.1 | Operating systems | 3 | 108 | 3 |
| S.1.2.2 | Databases | 7 | 180 | 5 |
| S.1.2.3 | Documentation support | 10 | 108 | 3 |
| S.1.2.4 | Fundamentals of reliability theory and technical diagnostics | 8 | 144 | 4 |
| S.1.2.5 | Production process management | 8 | 144 | 4 |
| S.1.2.6 | System software | 4 | 144 | 4 |
| S.1.2.7 | Information theory | 6 | 72 | 2 |
| S.1.2.8 | Time series analysis and forecasting | 6 | 108 | 3 |
| S.1.2.9 | Distributed automatic control systems | 9 | 144 | 4 |
| S.1.2.10 | Software design | 10 | 180 | 5 |
| S.1.2.11 | Planning and conducting tests | 8 | 144 | 4 |
| S.1.2.12 | System modeling technology | 9 | 180 | 5 |
| S.1.2.13 | Applied Systemology | 9 | 144 | 4 |
| S.1.2.14 | Decision-making in conditions of uncertainty | 7 | 108 | 3 |
| S.1.2.15 | Technology and organization of production of products and services | 8 | 108 | 3 |
| S.1.3.1.1 | Data transmission in information management systems | 4 | 144 | 4 |
| S.1.3.1.2 | Mathematical foundations of digital signal processing | /4 | /144 | /4 |
| S.1.3.1.3 | Military training | /4 | /144 | /4 |
| S.1.3.2.1 | Mathematical foundations of the general theory of systems and system analysis | 5 | 144 | 4 |
| S.1.3.2.2 | Operations research and system analysis | /5 | /144 | /4 |
| S.1.3.2.3 | Military training | /5 | /144 | /4 |
| S.1.3.3.1 | Visual programming tools | 6 | 180 | 5 |
| S.1.3.3.2 | Programming in visual environments | /6 | /180 | /5 |
| S.1.3.3.3 | Military training | /6 | /180 | /5 |
| S.1.3.4.1 | Design of intelligent control systems | 7 | 180 | 5 |
| S.1.3.4.2 | Software and hardware complexes of intelligent systems | /7 | /180 | /5 |
| S.1.3.4.3 | Military training | /7 | /180 | /5 |
| S.1.3.5.1 | Modern system design tools | 8 | 108 | 3 |
| S.1.3.5.2 | Designing problem-oriented systems | /8 | /108 | /3 |
| S.1.3.5.3 | Military training | /8 | /108 | /3 |
| S.1.3.6.1 | Sports games | 2 | 82 | 0 |
| S.1.3.6.1 | Sports games | 3 | 82 | 0 |
| S.1.3.6.1 | Sports games | 4 | 82 | 0 |
| S.1.3.6.1 | Sports games | 5 | 38 | 0 |
| S.1.3.6.1 | Sports games | 6 | 44 | 0 |
| S.1.3.6.2 | Recreational physical culture | /2 | /82 | 0 |
| S.1.3.6.2 | Recreational physical culture | /3 | /82 | 0 |
| S.1.3.6.2 | Recreational physical culture | /4 | /82 | 0 |
| S.1.3.6.2 | Recreational physical culture | /5 | /38 | 0 |
| S.1.3.6.2 | Recreational physical culture | /6 | /44 | 0 |
|  | **Total** |  | **9400** | **252** |