

The Ministry of Science and Higher Education of the Russian Federation

Tambov State Technical University

Curriculum

Bachelor's Degree

09.03.01 Informatics and Computer Engineering

Direction "Models, Methods and Software for Design Solutions Analysis"

Full-time (4 years)

Philosophy
History
Social Psychology
Russian Language and Culture of Communication
Foreign Language
Safety of Human Activity
Law
Ecology
Higher Mathematics
Physics
Programming
Information Protection in Information, Control and Computing Systems
Circuitry of Digital Systems
Standardization and Certification of Software and Hardware Complexes
Computer Science and Engineering
Algorithmization, Data Models and Basics of Artificial Intelligence
Introduction into Profession
Project Work in Professional Activity
Theory of Economics
Physical Training and Sport
Computers and Peripherals
Office Technologies
Probability Theory, Mathematical Statistics and Random Processes
Operating Systems
Computer Graphics
Development of Software
Fundamentals of Electrical Engineering and Electronics
Networks and Telecommunications
Programming in a High-level Language
Numerical Methods for Solving Engineering Problems
Object-oriented Programming
Mobile Computing Platforms
Linguistic means of Computing Systems
Methods of Project Decisions Optimization
Programming for Mobile Platforms
Fundamentals of Information Theory and Cryptography
Geometric Modeling
Internet Technologies

Software Testing
Models and Methods of Project Decisions Analysis
Multimedia Technologies
CAD Systems
Installation and Operation of Computer Systems
Lifecycle of Program Systems
Microprocessor Systems
Databases
Elective Disciplines in Physical Training and Sports
Training Practice
Observing Practice
Enterprise Practice
Technological Practice
Operational Practice
Pre-Diploma Practice
Final State Examination
Final Qualification Project
Optional Disciplines:
Management Skills
Cross Skills
Forming Civil Position
Applied Mathematics