

List of subjects for “Fundamental computer science and information technology” field of study

Major – Data bases technology

1. Mathematical modeling and information technology in design
2. Economic justification of design decisions
3. Professional foreign language
4. Basics of world view security
5. Basics of digital production
6. Basic fundamentals of systems engineering
7. Modeling and simulation of systems
8. Practice of system engineering
9. Applied problems of probability theory and mathematical statistics
10. System architecture and design
11. Optimization methods
12. Special issues of database theory
13. System integration
14. Operational calculus in signal processing and analysis
15. Complex systems management
16. Database theory basics
17. Data mining
18. Production internship (internship for getting professional skills and experience in the field of study)
19. Production internship (pre-diploma practice)
20. Production practice (research)
21. State exams

Major – System engineering

1. Mathematical modeling and information technology in design
2. Economic justification of design decisions
3. Professional foreign language
4. Basics of world view security
5. Basics of digital production
6. Basic fundamentals of systems engineering
7. Modeling and simulation of systems
8. Practice of system engineering
9. Applied problems of probability theory and mathematical statistics
10. System architecture and design
11. Optimization methods
12. Special issues of database theory
13. System integration
14. Operational calculus in signal processing and analysis
15. Complex systems management
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