

List of subjects for “Applied computer science” field of study

Major – Applied computer science in economics

1. History
2. Foreign languages
3. Philosophy
4. Life safety
5. Physical education
6. Applied physical education
7. Economics
8. Physics
9. Mathematics
10. Computer science
11. Operating system
12. Programming
13. Data base
14. Engineering drawing and computer graphics
15. Metrology and standardization of information systems and technology
16. Network technology
17. Information security basics
18. System analysis
19. Systems modeling basics
20. Research
21. Computer and systems architecture
22. Information systems interface design
23. Object-oriented programming
24. Software engineering and testing
25. Information systems engineering
26. Physics (additional chapters)
27. Database management systems
28. Arithmetic and logical basics of computing systems
29. Electrical engineering, electronics and circuit engineering
30. Mathematics - special chapters
31. Computers and peripheral devices
32. Networks and telecommunications
33. Optimization and decision-making in technical systems
34. Vocational profession
35. Practice project
36. Information systems and technology
37. Project management
38. Software engineering
39. Simulation modeling
40. Basics of work in 1C system
41. Software applications development
42. Internet programming
43. Business process modeling
44. Intelligent information system
45. IP system architecture
46. Information resources management
47. Information systems management
48. Mathematical methods in economics
49. Logistics
50. E-business
51. Distribution systems
52. Econometrics
53. Analysis, improvement and management of business processes
54. Decision support systems
55. Education internship (internship for getting primary professional skills, including skills for research)
56. Production internship (internship for getting professional skills and experience in the field of study)
57. Production internship (pre-diploma practice)
58. State exams

Major – Applied computer science in service

1. History
2. Foreign languages
3. Philosophy
4. Life safety
5. Physical education
6. Physics
7. Mathematics
8. Operating system
9. Programming
10. Data base
11. Metrology and standardization of information systems and technology
12. Network technology
13. System analysis
14. Systems modeling basics
15. Information security basics
16. Information systems interface design
17. Information systems engineering
18. Knowledge and skills systematization in professional activity
19. Basics of logic and graph theory
20. Computer graphics and multimedia technology
21. World information resources and Internet technology
22. Organization and use of computer networks based on Cisco network equipment
23. Information systems efficiency analysis
24. Simulation modeling
25. Programming in database management systems
26. Object-oriented analysis and programming
27. Information project management
28. Jurisprudence
29. Russian language and culture of speech
30. Software engineering
31. Economics
32. Information technology in service
33. Information system business modeling
34. Computer systems, networks and telecommunications
35. Applied physical education
36. Information logistics
37. Information management
38. Entrepreneurship in IT
39. Management and marketing basics
40. Intelligent information system
41. Geoinformation systems
42. Heuristics in information service
43. Innovations in information service
44. Decision support systems
45. Operational research
46. Information and analytical activities in service
47. Social forecasting
48. Anti-virus protection of mobile applications
49. Computer network security
50. Basics of working with Google apps
51. Modeling and management of information processes
52. Education internship (internship for getting primary professional skills, including skills for research)
53. Production internship (internship for getting professional skills and experience in the field of study)
54. Production internship (pre-diploma practice)
55. State exams