

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

Major – Computing machinery, complexes, systems and networks

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Economics
7. Physics
8. Mathematics
9. Computer science
10. Operation system
11. Programming
12. Database
13. Engineering drawing and computer graphics
14. Metrology and standardization of information systems and technology
15. Network technology
16. Information security basics
17. System analysis
18. System modeling basics
19. Computer and system architecture
20. Information system interface design
21. Object-oriented programming
22. Software engineering and testing
23. Information systems engineering
24. Additional physics chapters
25. Database management systems
26. Arithmetic and logical basics of computing systems
27. Electrical engineering, electronics and circuit engineering
28. Special mathematics chapters
29. Computers and peripheral hardware
30. Networks and telecommunications
31. Optimization and decision making in technical systems
32. Vocational profession
33. Knowledge and skill systematization in professional activity
34. Applied physical education
35. Additional sections of system modeling
36. Applied theory of digital automata
37. Architectural design of digital devices
38. Web programming
39. System software
40. System programming methods
41. Circuit solutions in computer engineering
42. Artificial intelligence systems
43. Programming in graphic and event-driven systems
44. Automatic control theory
45. Design engineering of computers
46. Mobile application development
47. Microprocessor systems
48. Engineering and architecture of software systems
49. Embedded control systems
50. Modeling theory
51. Software project management
52. Artificial intelligence systems
53. Information protection
54. Programming technology
55. Software development technologies
56. Web-technology
57. Mathematical logic and algorithm theory
58. Development of Web-systems
59. Computer technology in automatic control systems
60. System software and microcontrollers
61. Programming systems
62. Structured system analysis
63. Theoretical basics of automated control
64. Modeling of object-oriented systems
65. Education internship (internship for getting primary professional skills, including skills for research)
66. Production internship (internship for getting professional skills and experience in the field of study)
67. Production internship (pre-diploma practice)
68. State exams

Major – Software development technology

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Economics
7. Physics
8. Mathematics
9. Computer science
10. Operation system
11. Programming
12. Database
13. Engineering drawing and computer graphics
14. Metrology and standardization of information systems and technology
15. Network technology
16. Information security basics
17. System analysis
18. System modeling basics
19. Computer and system architecture
20. Information system interface design
21. Object-oriented programming
22. Software engineering and testing
23. Information systems engineering
24. Additional physics chapters
25. Database management systems
26. Arithmetic and logical basics of computing systems
27. Electrical engineering, electronics and circuit engineering
28. Special mathematics chapters
29. Computers and peripheral hardware
30. Networks and telecommunications
31. Optimization and decision making in technical systems
32. Vocational profession
33. Knowledge and skill systematization in professional activity
34. Applied physical education
35. Additional sections of system modeling
36. Applied theory of digital automata
37. Architectural design of digital devices
38. Web programming
39. System software
40. System programming methods
41. Circuit solutions in computer engineering
42. Artificial intelligence systems
43. Programming in graphic and event-driven systems
44. Automatic control theory
45. Design engineering of computers
46. Mobile application development
47. Microprocessor systems
48. Engineering and architecture of software systems
49. Embedded control systems
50. Modeling theory
51. Software project management
52. Artificial intelligence systems
53. Information protection
54. Programing technology
55. Software development technologies
56. Web-technology
57. Mathematical logic and algorithm theory
58. Development of Web-systems
59. Computer technology in automatic control systems
60. System software and microcontrollers
61. Programming systems
62. Structured system analysis
63. Theoretical basics of automated control
64. Modeling of object-oriented systems
65. Education internship (internship for getting primary professional skills, including skills for research)
66. Production internship (internship for getting professional skills and experience in the field of study)
67. Production internship (pre-diploma practice)
68. State exams

Major – Automated systems for information processing and management

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Economics
7. Physics
8. Mathematics
9. Computer science
10. Operation system
11. Programming
12. Database
13. Engineering drawing and computer graphics
14. Metrology and standardization of information systems and technology
15. Network technology
16. Information security basics
17. System analysis
18. System modeling basics
19. Computer and system architecture
20. Information system interface design
21. Object-oriented programming
22. Software engineering and testing
23. Information systems engineering
24. Additional physics chapters
25. Database management systems
26. Arithmetic and logical basics of computing systems
27. Electrical engineering, electronics and circuit engineering
28. Special mathematics chapters
29. Computers and peripheral hardware
30. Networks and telecommunications
31. Optimization and decision making in technical systems
32. Vocational profession
33. Knowledge and skill systematization in professional activity
34. Applied physical education
35. Automatic control theory
36. Design engineering of computers
37. Mobile application development
38. Information protection
39. Programming technology
40. Software development technologies
41. Software project management
42. Modeling theory
43. Artificial intelligence systems
44. System modeling - additional sections
45. Applied theory of digital automata
46. Architectural design of digital devices
47. Engineering and architecture of software systems
48. Microprocessor systems
49. Embedded control systems
50. Mathematical logic and algorithm theory
51. Web-technology
52. Development of Web-systems
53. System software and microcontrollers
54. Computer technology in automatic control systems
55. Programming systems
56. Web programming
57. System software
58. System programming methods
59. Artificial intelligence systems
60. Circuit solutions in computer engineering
61. Programming in graphic and event-driven systems
62. Theoretical basics of automated control
63. Modeling of object-oriented systems
64. Structured system analysis
65. Education internship (internship for getting primary professional skills, including skills for research)
66. Production internship (internship for getting professional skills and experience in the field of study)
67. Production internship (pre-diploma practice)
68. State exams