

List of subjects for “Software engineering” field of study

Major – Software development

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Applied physical education
7. Economics
8. Physics
9. Mathematics
10. Computer science
11. Operating systems
12. Programming
13. Data base
14. Engineering drawing and computer graphics
15. Metrology and standardization of information technology and system
16. Network technology
17. Information security basics
18. System analysis
19. System modeling basics
20. Mathematical logic and algorithm theory
21. Software project management
22. Computer and system architecture
23. Information systems interface design
24. Object-oriented programming
25. Software engineering and testing
26. Information systems engineering
27. Physics (additional chapters)
28. Data base management systems
29. Arithmetic and logical basics of computing systems
30. Electrical engineering, electronics and circuit engineering
31. Mathematics (additional chapters)
32. Computers and peripheral devices
33. Networks and telecommunications
34. Optimization and decision making in technical systems
35. Vocational profession
36. Knowledge and skills systematization in professional activity
37. Automatic management system
38. Automata and formal language theory
39. System software and microcontrollers
40. Software testing
41. System simulation modeling
42. System modeling (additional sections)
43. Introduction to software engineering
44. Software systems engineering and architecture
45. Programming theory and technology
46. Web programming
47. Information protection
48. Numerical methods and algorithms in automated management
49. Intelligent technology and knowledge representation
50. Artificial intelligence systems
51. Decision support systems
52. Software reliability and quality
53. Education internship (internship for getting primary professional skills, including skills for research)
54. Production internship (internship for getting professional skills and experience in the field of study)
55. Production internship (pre-diploma practice)
56. State exams