

List of subjects for “Technological processes and production automation” field of study

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Enterprises economics and production management
6. Physics
7. Mathematics
8. Computer science
9. Ecology
10. Applied mechanics
11. Metrology
12. Electrical engineering and electronics
13. Material science and construction materials technology
14. Engineering drawing and computer graphics
15. Chemistry
16. Vocational profession
17. Knowledge and skills systematization in professional activity
18. Machine engineering technology basics
19. Machine engineering equipment
20. Automated control theory
21. Management automation in technical systems
22. Air-oil circuit
23. Computer-aided engineering of design kit
24. Technical systems reliability
25. Production departments design engineering basics
26. Computer tools for automated control systems
27. Industrial robots and robotic systems
28. Programmable logic management system theory
29. Technical systems management theory
30. Circuit engineering in automated management systems
31. Electromechanical systems
32. Technological processes and production automation
33. Applied physical education
34. Electrics in equipment operation
35. Industrial automation basics
36. Pneumatic and hydraulic automation for equipment operation
37. Pneumatic and hydraulic automation devices
38. Technical measurements and devices
39. Information and measuring means for management systems
40. Automated control system engineering
41. Flexible production systems
42. Design decision making methods
43. Program control for automatic equipment
44. Program control systems for automated equipment
45. Integrated design engineering and control systems
46. CAD/ automation of production processes
47. Control modeling and algorithm development in automated systems
48. Algorithms for optimal and adaptive control of automated equipment
49. Automation system unit design engineering
50. Digital devices engineering (based on programmable logic device)
51. Education internship (internship for getting primary professional skills, including skills for research)
52. Production internship (internship for getting professional skills and experience in the field of study)
53. Production internship (pre-diploma practice)
54. State exams