

List of subjects for “Technological machines and complexes design engineering” field of study

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Enterprise economics and production management
7. Physics
8. Mathematics
9. Computer science
10. Ecology
11. Applied mechanics
12. Metrology
13. Electrical engineering and electronics
14. Material science and construction materials technology
15. Engineering drawing and computer graphics
16. Chemistry
17. Machine engineering technology basics
18. Fluid and gas mechanics
19. Research methodology
20. Intellectual property protection
21. Thermal dynamics and heat transfer
22. Technological machines and systems engineering analyses
23. CAD and preproduction
24. Corrosion and material prevention
25. Steel and alloy material science
26. Technological processes physics
27. Welding standards
28. Technical systems management
29. Welding processes theory
30. Machine engineering mathematical modeling
31. Polymers and composites
32. Robotized technological systems and transfer lines in welding
33. Storage facilities construction
34. Welding devices design engineering
35. Blank production shop design engineering
36. Power supply for welding
37. Welded construction quality control
38. Special power supplies
39. Plasma processes equipment and systems
40. Polymer materials welding equipment and technology
41. Special welding methods equipment and technology
42. Contact welding equipment and technology
43. Basics of different steel classes welding
44. Equipment and technology of thermal processing of welded joints
45. CAD in welding
46. Machines and systems for main pipeline welding
47. Machines and systems for polyethylene pipelines welding
48. Welded constructions design engineering
49. Technological systems for welded constructions production
50. Blank design engineering and production
51. Theoretical basics of fusion welding
52. Material hardening methods
53. Gas welding and cutting equipment and technology
54. Welding industry attestation in Russia
55. Equipment for fusion welding
56. Flame metal machining
57. Welding processes and equipment automation
58. Experimental technique and research automation
59. Education internship (internship for getting primary professional skills, including skills for research)
60. Production internship (internship for getting professional skills and experience in the field of study)
61. Production internship (pre-diploma practice)
62. Thesis
63. Elementary mathematics