

List of subjects for “Material science and material technology” field of study

1. Foreign language
2. History
3. Philosophy
4. Life safety
5. Physical education and sport
6. Enterprise economics and production management
7. Physics
8. Mathematics
9. Computer science
10. Ecology
11. Applied mechanics
12. Metrology
13. Electrical engineering
14. Material science and construction materials technology
15. Engineering drawing and computer graphics
16. Chemistry
17. Nanotechnology and nanomaterials
18. Research
19. Research methodology
20. Intellectual property protection
21. Physical and colloid chemistry
22. Tribophysics
23. Physical material science
24. Methods of material and material processing selection
25. Corrosion and material prevention
26. Steel and alloys material science
27. Physical basics of technological processes
28. Powder metallurgy technology
29. Applied physical education and sport
30. Machine engineering technology basics
31. Computational physics
32. Material analysis, control and testing
33. Radiotechnology in nanosystems
34. Medical equipment production
35. Biomedical nanotechnology
36. Ultrasound material machining
37. Crystallography
38. Biophysics and biomaterials
39. New materials in medical equipment
40. Blank design engineering and production
41. Nanosystem synthesis
42. Polymers and composites
43. Nanoscience basics
44. Thermal treating theory
45. Electronic microscopy
46. Mathematical theory of experiment planning and processing
47. Thin-film coating technique
48. CAD and preproduction
49. Probe microscopy
50. Technological processes mathematical modeling
51. Nanotechnology in catalytic 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
56. Elemental mathematics