

List of subjects for “Machine engineering for power industry” field of study

1. History
2. Foreign languages
3. Philosophy
4. Life safety
5. Physical education
6. Economics
7. Physics
8. Mathematics
9. Computer science
10. Ecology
11. Applied mechanics
12. Electrical measurements
13. Technical systems management
14. Electrotechnical and construction material science
15. Electrical engineering theory basics
16. Engineering drawing and computer graphics
17. Chemistry
18. Fluid and gas mechanics
19. Research
20. Dynamics and management of hydraulic and pneumatic systems
21. Application software
22. Electrical machines
23. General energy industry
24. Hydraulic and pneumatic drives in electric energy system
25. Electric and heat energy metering systems
26. Thermal engineering theory basics
27. Technical systems efficiency theory
28. Electric power supply
29. Information base for dispatcher control
30. Electromagnetic field theory
31. Technological energy carriers for enterprises
32. Heat energy sources and systems
33. Energy audit and energy saving basics
34. Industrial electronics
35. Electrical drive
36. Research basics
37. Applied physical education
38. Positive-displacement hydraulic machines and transmissions
39. Positive displacement units
40. Paddle machines and hydramatic transmission
41. Nonpositive displacement pumps and hydramatic transmission
42. Compressor and vacuum machines
43. Operating process of displacement compressors with single-phase working fluid
44. Electrics means for hydraulic and pneumatic systems
45. Special chapter of hydraulic and pneumatic systems dynamics and management
46. Friction, wear and compaction machinery
47. Constrained optimization
48. Education internship (internship for getting primary professional skills, including skills for research)
49. Production internship (internship for getting professional skills and experience in the field of study)
50. Production internship (pre-diploma practice)
51. State exams
52. Elementary mathematics