

List of subjects for “Energy machine engineering” field of study

1. Professional foreign language
2. Research basics
3. World view security basics
4. Mathematical modeling and information technology in design
5. Electric apparatuses
6. Chemical reactors, fuel cells and electric-chemical units
7. Tribosystems of hydraulic and pneumatic devices
8. Energy-efficient technology in energy industry
9. Maintenance and repair of pumping units
10. Modern measuring equipment of hydraulic and pneumatic systems
11. Organization of cognitive, educational and scientific activity
12. Fluid and gas mechanics – special chapters
13. Fluid and gas dynamics
14. Mathematical modeling of displacement compressors operating processes
15. Mathematical modeling of technical facilities
16. Mathematical modeling of displacement pump operating processes
17. Calculations of displacement pump operating processes
18. Pump units for energy supply systems
19. Systems of measurement and control of technological equipment efficiency
20. Education internship (internship for getting primary professional skills, including skills for research)
21. Production internship (internship for getting professional skills and experience in the field of study)
22. Production internship (pre-diploma practice)
23. Production internship (research)
24. State exams