

List of subjects for “Heat power engineering and thermal equipment” field of study

Major – Industrial heat power engineering

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Physics
7. Mathematics
8. Computer science
9. Ecology
10. Electrical measurement
11. Technical systems management
12. Electrotechnical and constructional material science
13. Electrical engineering theoretical basics
14. Research
15. General energy industry
16. Thermal engineering theoretical basics
17. Hydraulic and pneumatic control valve actuator in energy systems
18. Economics
19. Electrical machinery
20. Electrical and heat power audit systems
21. Technical systems efficiency basics
22. Electrical supply
23. Technological energy sources for enterprises
24. Heat supply sources and systems
25. Energy audit and energy efficiency basics
26. Engineering measurements and automation of heat processes
27. Applied physical education
28. Chemistry
29. Research basics
30. Applied mechanics
31. Engineering drawing and computer graphics
32. Dispatch control information basics
33. Heating and ventilation systems design engineering basics
34. Feed-water preparation technology at thermal power station
35. Steam boiler units
36. Gas turbines and gas-fired power plant
37. Turbines for thermal power stations
38. Heat balance diagrams and thermal power station operating modes
39. Thermal power plant fuel system
40. Alternative energy sources
41. Thermal-mechanical and supporting machinery for thermal power station
42. Heat engineering special chapters
43. Industrial ventilation and conditioning
44. Water regime of thermal power stations
45. Power units for heat-only boiler stations
46. Steam-gas thermal power stations operating modes
47. Steam turbine thermal power stations operating modes
48. Thermal power stations operating modes
49. Engineering and operation of production and distribution systems of technological energy carriers
50. Engineering and operating of heat energy distribution system
51. Supporting systems and equipment for thermal power station
52. Heat and mass transfer in thermal engineering equipment
53. Education internship (internship for getting primary professional skills, including skills for research)
54. Production internship (internship for getting professional skills and experience in the field of study)
55. Production internship (pre-diploma practice)
56. State exams

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