

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

1. Mathematical modeling and information technology in design
2. Professional foreign language
3. Research basics
4. World view security basics
5. Electric apparatus
6. Chemical reactors, fuel cells, electrical and chemical units
7. Tribosystems in hydraulic and pneumatic devices
8. Energy-efficient technology in energy industry
9. Modern problems of generation, transmission and distribution of electrical power
10. Modern measuring equipment of hydraulic and pneumatic systems
11. Organization of cognitive, educational and scientific activity
12. Technical and economic optimization of heat and power engineering units
13. Special chapters of heat engineering
14. Automation of technological processes in heat and power engineering and heat technology
15. Energy audit at industrial enterprises
16. Theory and methods of heat engineering experiment
17. Dispersed flow dynamics
18. Diagnostics and reliability of heat and power equipment and heat-consuming systems
19. Diagnostics and reliability of heat generating units and systems
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. State exams