

List of subjects for “Refrigerating and cryogenic equipment and life support systems” field of study

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education
6. Enterprise economics and production management
7. Physics
8. Mathematics
9. Computer science
10. Ecology
11. Engineering drawing and computer graphics
12. Fluid and gas mechanics
13. Chemistry
14. Foreign language for special purposes
15. Industrial safety basics
16. Special technology
17. Vocational profession
18. Knowledge and skills systematization in professional activity
19. Technological units automation
20. Vocational profession training
21. Physical experiment basics
22. Corrosion and material prevention
23. Machine engineering technology basics
24. Metrology
25. Material science and construction materials technology
26. Electrical engineering and electronics
27. Applied mechanics
28. Thermal dynamics and heat transfer
29. Applied physical education
30. Cryogenic equipment basics
31. Primary technological processes in chemical and petrochemical industry
32. Compressor and pump equipment for low temperature units
33. Reciprocating compressor theory, calculations and construction
34. Gas separation and liquefaction systems
35. Dynamic compressor machines theory, calculations and construction
36. Cryogenic and microcryogenic systems and low temperature machines
37. Pump and compressor stations and pipeline systems
38. Computer technology in chemical and petrochemical machine engineering, compressor and low temperature equipment
39. Basics of low temperature, technological and compressor equipment automated engineering
40. Vacuum equipment
41. Pump and compressor equipment for chemical industry
42. Low temperature machines and units engineering
43. Engineering of machines and unit for chemical industry
44. Refrigerating machines and units
45. Low temperature machines
46. Basics of production, maintenance and installation of technological equipment for chemical and oil and gas industry
47. Pipeline systems and equipment for transportation and storage of gases and fluids
48. Refrigerating equipment theory basics
49. Conditioning theory basics
50. Heat transfer equipment for compressor, low temperature and chemical and technological units
51. Working fluids for low temperature, vacuum and compressor equipment
52. Conditioning and life support systems
53. Technological processes physics
54. Low temperature, pump and compressor systems and complexes engineering basics
55. Mathematical modeling of heat transfer processes in compressor, refrigerating and technological units
56. Education internship (internship for getting primary professional skills, including skills for research)
57. Production internship (internship for getting professional skills and experience in the field of study)
58. Production internship (pre-diploma practice)
59. State exams