

List of subjects for “Biotechnology” field of study

1. History
2. Foreign language
3. Philosophy
4. Life safety
5. Physical education and sport
6. Research
7. Mathematics
8. Physics
9. Computer science
10. Ecology
11. Analytical chemistry and physical and chemical analysis methods
12. General, inorganic and organic chemistry
13. Physical and colloid chemistry
14. Engineering drawing and computer graphics
15. Applied mechanics
16. Electric engineering
17. Hydraulics and thermal engineering
18. General chemistry and biotechnology
19. Processes and devices in biotechnology
20. Cultivation of microorganisms
21. Microbial products and their industrial production
22. Biotechnology basics
23. Biodegradation of poison and industrial waste disposal
24. Bacterial mass and processing methods
25. Industrial microbiology basics
26. Biotechnology of microorganisms
27. Biotechnological production engineering
28. Soil biotechnology
29. General biology and microbiology
30. Monoclonal antibody technology
31. Research basics
32. Biochemistry and molecular biology basics
33. Methods for raw material and product analysis in biotechnology
34. Applied physical education
35. Typical biotechnological process – fermentation
36. Fermentation
37. Sanitary microbiology basics
38. Industrial microbiology
39. Environmental monitoring, pollution prevention and treatment
40. Microbiological methods for reclamation of soil contaminated by heavy metals
41. Recombinant DNA
42. Genetic ferment engineering
43. Bio-treatment of oil-contaminated ecosystems
44. Biotechnology of sewage water treatment
45. Biodeterioration and material degradation
46. Material biotereriation
47. Microbial selection
48. Selection of biological primary producers
49. Metrology, standardization and certification in biotechnology
50. Legislation in biotechnology
51. Biocatalytic, biosynthetic, biosynthetic technology
52. Biocatalytic processes for preparation production
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
57. Elementary mathematics