

PLAN
in physical and colloid chemistry for first-year students of the Faculty of Pharmacy

II SEMESTER

1. State equation. Ideal gas.
2. Chemical thermodynamics.
3. Thermodynamic principles. Energy, work, heat.
4. Thermochemistry. Hess's law.
5. The second law of thermodynamics.
6. The third law of thermodynamics.
7. Thermodynamic potentials. Gibbs energy, Helmholtz energy.
8. Chemical equilibrium. Le Chatelier - Brown principle.
9. Phase equilibria. The phase rule.
10. Test №1 «Thermodynamic. Equilibrium.»
11. Solutions. Activity. Activity coefficient. Colligative properties of the solutions.
12. Buffer systems.
13. Test №2 «Solutions.»
14. Electrolyte solutions.
15. Electrical conductivity – specific, equivalent.
16. Test №3 «Electrochemistry.»

Зав. Кафедрой химии
фармацевтического факультета
доцент, д.б.н.

М.В. Мажитова