

SEMINARY CLASSES

Week	Date	
1	17. 9. – 20. 9. 2007	The properties of single particles, mole and molar quantities; concentration of solutions, basic laboratory calculations.
2	24. 9. – 27. 9. 2007	1st test (<i>Basic laboratory calculations.</i>) Dissociation of electrolytes, activity of ions, ionic strength; osmotic pressure, osmolality.
3	1. 10. – 4. 10. 2007	Protolytic reactions – pH of acid, base, and salt solutions, buffers, calculations.
4	8. 10. – 11. 10. 2007	Intermolecular forces and adsorption. Tensides.
5	15. 10. – 18. 10. 2007	2nd test (<i>Electrolytes, calculations of pH, hydrolysis of salts, buffers, osmotic pressure, intermolecular forces, tensides</i>) Reaction kinetics, the law of chemical equilibrium.
6	22. 10. – 25. 10. 2007	Energy in chemical reactions, free energy and equilibrium, relationship between standard free energy change and equilibrium constant. Latin nomenclature.
7	29. 10. – 1. 11. 2007	3rd test (<i>Reaction kinetics, thermodynamics of chemical change, latine nomenclature</i>) Oxidation-reduction reactions, electrode potentials, electrochemical cell potentials and the free energy change.
8	5. 11. – 8. 11. 2007	Chemical properties of characteristic groups of carbon compounds – Part I.
9	12. 11. – 15. 11. 2007	Chemical properties of characteristic groups of carbon compounds – Part II.
10	19. 11. – 22. 11. 2007	4th test (<i>Oxidation-reduction, organic compounds – nomenclature, structures, reactions.</i>) Heterocyclic compounds and their derivatives.
11	26. 11. – 29. 11. 2007	Chemistry of saccharides.
12	3. 12. – 6. 12. 2007	5th test (<i>Heterocycles, saccharides.</i>) Chemistry of lipids and steroids.
13	10. 12. – 13. 12. 2007	Properties of amino acids. Proteins – secondary and tertiary structures.
14	17. 12. – 20. 12. 2007	Summary test.
15	2. 1. – 4. 1. 2008	Consultations. Credits.

Recommend text books: Medical Chemistry – Seminar (J.Dostal, Brno 2007)
 Táborská, Sláma: Medical Chemistry I (General and Inorganic Chemistry) Brno 2006
 Dostál: Medical Chemistry II (Organic Chemistry) Brno 2006

Compensatory dates for neglected lessons (justified properly) will be given only by agreement with the respective teacher.

The 31st of January 2008 is the deadline for making up all the lessons!

