Students are expected to come to the seminar room at least 5 minutes before the start of the lesson.

Wee	Date	
<i>k</i> 1	20. 9. – 24. 9.	The properties of single particles, mole and molar quantities; concentration of solutions, basic laboratory calculations.
2	27. 9. – 1. 10.	<u>1st test</u> (10 Q- Basic laboratory calculations.)
		Dissociation of electrolytes, activity of ions, ionic strength; osmotic pressure, osmolality.
3	4. 10. – 8. 10.	Aci-base reactions – pH of acid, base, and salt solutions, buffers, calculations.
4	11. 10. – 15. 10.	Intermolecular forces and adsorption. Tensides.
5	18. 10. – 22. 10.	$\underline{2^{\text{nd}}}$ test (12Q- Electrolytes, calculations of pH, hydrolysis of salts, buffers, osmotic pressure, intermolecular forces, tensides)
		Reaction kinetics, the law of chemical equilibrium.
6	25. 10. – 29. 10.	Energy in chemical reactions, free energy and equilibrium, relationship between standard free energy change and equilibrium constant. Latin nomenclature.
7	1. 11. – 5. 11.	$\underline{3^{rd} \text{ test}}$ (12 Q- Reaction kinetics, thermodynamics of chemical change, latine nomenclature)
		Oxidation-reduction reactions, electrode potentials, electrochemical cell potentials and the free energy change.
8	8. 11. – 12. 11.	Organic compounds – Part I.
9	15. 11. – 19. 11.	Organic compounds – Part II.
10	22. 11. – 26. 11.	<u>4th test</u> (18 Q-Oxidation-reduction, organic compounds – nomenclature, structures, reactions.)
		Heterocyclic compounds and their derivatives.
11	29. 11. – 3. 12.	Chemistry of saccharides.
12	6. 12. – 10. 12.	<u>5th test</u> (12 Q-Heterocycles, saccharides.)
		Chemistry of lipids and steroids.
13	13. 12. – 17. 12.	Properties of amino acids. Proteins – secondary and tertiary structures.
14	3. 1. – 7. 1. 2011	Credit test (30Q).

<u>Recommended textbooks</u>: Medical Chemistry – Seminars (J.Dostal, Brno 2008) Táborská, Sláma: Medical Chemistry I (General and Inorganic Chemistry) Brno 2006

Dostál: Medical Chemistry II (Organic Chemistry) Brno 2006

Conditions for giving the course-unit credit

- Full (100%) attendance in seminars is the principal condition.

 If any absence, it must be apologized through Department of Study Affairs **up to five days.**If apology is recorded in Information System (IS), then student is allowed to make up the absence according to teacher's instructions.
- Five revision tests are written in seminars, semestral limit for credit is 49/64.
- If the semestral limit is not fulfilled, student must write the Credit test (limit 12/30). One repetition of the Credit test is approved.

Deadline for any issue (making up all missing and justified lessons, passing the credit test) is 21. 1. 2011.

Students that will not meet this requirement will not be given the course-unit credit. Obtaining of course-unit credits of seminars is the pre-requisite for registration to the examination of Medical chemistry and for enrollment of Biochemistry in the Spring semester.