GENERAL MEDICINE, DENTISTRY

VSBC021s, ZLBC021s

Date	
1. week 18. 2. – 22. 2.	Introduction into the metabolism of cells (differences between prokaryotic and eukaryotic cell, compartmentation of metabolic processes, enzyme markers of cell fractions, non-covalent interactions in the cell and their significance).
2. week 25. 2. – 1. 3.	Structure of haemoglobin and its relationship to the function. Hb types in the blood of healthy subjects, HbCO and MetHb, abnormal Hb types.
3. week 4. 3. – 8. 3.	Enzymes - reaction rate, progress curve, the Michaelis plot and K_m , enzyme inhibition.
4. week 11. 3. – 15. 3.	Coenzymes, their relationship to vitamins.
5. week 18. 3. – 22. 3.	Membrane structure and assembly. Transport across membranes. Written test I – 25 questions (Haemoglobin, enzymology, coenzymes).
6. week 25. 3. – 29. 4.	Metabolism of glucose: Glycolysis under anaerobic and aerobic conditions and the oxidation of pyruvate. Gluconeogenesis. Glycogenesis and glycogenolysis.
	[#] Beginning the 7th week the weekly program starts on Tuesdays
7. week # 2. 4. – 8. 4.	Metabolism of proteins. Common features of amino acid conversion. The synthesis of urea. Nitrogen balance.
8. week 9. 4. – 15. 4.	Important reactions in amino acid catabolism.
9. week 16. 4. – 22. 4.	 Biosynthesis and desaturation of fatty acids. The sources of essential fatty acids. Metabolism of triacylglycerols. Written test II- 25 questions (Membranes, membrane transport, metabolism of saccharides and amino acids.)
10. week 23. 4. – 29. 4.	Peroxidation of lipids. Metabolism of phospholipids. Biosynthesis of eicosanoids.
11. week 30. 4. – 6. 5.	The citric acid cycle. Written test III – 25 questions (Metabolism of lipids.)
12. week 7. 5. – 13. 5.	The respiratory chain and oxidative phosphorylation.
13.week 14.520.5.	Replication, transcription, translation
14. week	Compensatory lessons.
21. 5. – 27. 5.	Credit test for the students who did not reach the required limit 52/75.
15. week 27. 5. – 31. 5.	Anatomy dissections

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.
- Three revision tests are written in seminars, semestral limit for credit is 52/75.
- If the semestral limit is not fulfilled, student must write the Credit test (limit 14/30).
- All absences must be made up before writing the credit test.
- One repetition of the Credit test is approved.

Deadline for any issue (making up all missing and justified lessons, passing the credit test) is 14. 6. 2013.

Students that will not meet this requirement will not be given the course-unit credit.

Obtaining of course-unit credits of practices and seminars is the pre-requisite for registration to the examination of Biochemistry I.