



SUBJECT DATASHEET

Semester:	2009/10/1
Subject:	Organic chemistry II.
Code:	VEMKOK1112K
Responsible department:	Department of Organic Chemistry
Responsible department code:	MKOK
Responsible lecturer:	Dt. József Bakos

Educational objectives:

Educational Objectives: Basic principles and systematics in organic chemistry

Detailed content of the subject:

Contents: Week 1. Unsaturated, aliphatic carbonyl compounds. Ketenes. 2. Conjugated, unsaturated and aromatic carbonyl compounds 3. Dicarboxyls. 1,2- and 1,3-dicarboxyls. Quinones. 4. Hydroxyoxo compounds. Sugars. Mono-, di-, and polysaccharides. 5. Carboxylic acids. Aliphatic and aromatic carboxylic acids. 6. Substituted carboxylic acids. Dicarboxylic acids. Unsaturated carboxylic acids. 7. Carboxylic acid derivatives. Anhydrides, carboxylic acid halides, esters, amides, imides, nitriles, lactams, and isocyanides. 8. Sulphur-containing organic compounds. Thiols, thiophenols, sulphide, sulfonic acids, sulfenic acids, sulphinic acids and derivatives. Detergents. 9. Amines. 10. Amino acids and peptides. 11. Nitrozo- and nitro compounds. 12. Organometallic compounds. 13. Carbonic acid derivatives. Thio- and dithiocarbonic acid derivatives. 14. Heterocyclic compounds Five- and six-membered rings with one or two heteroatoms. Fused heterocycles. Heterocyclic alkaloids. 15. Nucleosides, nucleotides, and nucleic acids. RNS and DNS. The genetical code.

Requirements:

Contact Hours/Week: 2+0+0 Examination: Test Credit value: 2

Required and suggested references:

Markó-Farády: Szerves kémia I-VIII Lempert Károly: Szerves kémia Kajtár Márton: Változatok négy elemre: Szerves kémia