



SUBJECT DATASHEET

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| Semester: | 2009/10/2 |
| Subject: | Organic chemistry II. |
| Code: | VEMKOK1112A |
| 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:

Examination: Test

Required and suggested references:

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