



## COURSE DATASHEET

<b>Semester:</b>	2012/13/2
<b>Course:</b>	Organic chemistry III.
<b>Code:</b>	VEMKOKB222V
<b>Responsible department:</b>	Department of Organic Chemistry
<b>Department code:</b>	MKOK
<b>Responsible instructor:</b>	József Sándor Pap

---

### Course objectives:

Educational objectives: To gain a deeper understanding of the topics of the lecture 'Organic Chemistry III'

### Course content:

Detailed content of the subject 1. Reactive intermediates and their importance in organic reaction mechanisms.. 2. Delocalization and delocalized bonds. 3. Conjugated molecules and aromatics. 4. The strengths of acids and bases. Kinetic and thermodynamic acidity. 5. Fluxional molecules. 5-6. Weak bonds in organic chemistry. 7-8. Carbocations, their reactivity and stability. 9. Free organic radicals. Their stability and reactivity 10-11. Carbenes and carbenes. 12. Organic photochemistry. 13. Stereochemistry at organic molecules. 14. Carbanions and their reactions.

### Requirements, evaluation and grading:

Requirements: - attendance is compulsory - passing 3 tests with an average score of 2 or above

### Required and recommended readings:

Dr. Markó László, Dr. Ungváry Ferenc Szerves Kémia V. Kézirat Veszprém 1997. Dr. Szántay Csaba Elméleti Szerves Kémia 3. kiad. Musz. Könyvkiadó Budapest 1984. Dr. Nógrádi Mihály Bevezetés a sztereokémiába Musz. Könyvkiadó Budapest 1975 (Dr. Nógrádi Mihály Stereochemistry, Basic Concepts & Applications, Pergamon Press, 1981. T. H. Lowry, K. Schueller Richardson: Mechanism and Theory in Organic Chemistry, 3. Edition, Harper and Row, New York 1990.