



## COURSE DATASHEET

<b>Semester:</b>	2012/13/1
<b>Course:</b>	Laboratory Practice from General and Inorganic Chemistry
<b>Code:</b>	VEMKIKB133V
<b>Responsible department:</b>	Department of General and Inorganic Chemistry
<b>Department code:</b>	MKAK
<b>Responsible instructor:</b>	dr. Zsolt Valicsek

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### Course objectives:

To get practice in inorganic preparative chemistry.

### Course content:

1. General information. Introduction to the program of the laboratory practice. Safety regulations. 2. Preparation of metal-oxides. 3. Preparation of metal-oxides. 4. Preparation of different phosphate, measuring melting point 5. Preparative work incident to gas evolution I., producing metal-sulphide. 6. Preparative work incident to gas evolution II., producing metal-sulphide. 7. Preparation metal-halides 8. Separation of metal ions by ion chromatography 9. Preparation of complexes 10. Preparation of complexes 11. Preparation of complexes 12. Preparation of complexes 13. Examination of prepared compounds by different analytical method 14. Examination of prepared compounds by different analytical method 15. Final examination paper

### Requirements, evaluation and grading:

Successful examination paper on safety regulations. The experiments are to be performed; the measurements and calculations have to be reported. A essay of 8-10 pages has to be written about a specified topic of inorganic chemistry. The mark of the practice is based on the grades given for the measurements and the final examination paper. The condition of the pass mark is a satisfactory level of the measurements as well as the final examination paper.

### Required and recommended readings:

Kollár Gy.- Kiss J.: Ált. és szervetlen preparatív kémiai gyakorlatok, Tankönyvkiadó Bp. 1983 Lengyel B.: Ált. és szervetlen kémiai praktikum, Nemzeti Tankönyvkiadó, Bp. 1990. Preparatív szervetlen kémiai gyakorlatok Welther Károlyné, VE, 2003.