



## COURSE DATASHEET

<b>Semester:</b>	2014/15/2
<b>Course:</b>	Metalloorganic Chemistry I.
<b>Code:</b>	VEMKAKV212F
<b>Responsible department:</b>	Department of Organic Chemistry
<b>Department code:</b>	MKOK
<b>Responsible instructor:</b>	dr. József Kaizer

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### Course objectives:

### Course content:

1. Historical Development and Current Trend sin Organometallic Chemistry; Classification of organometallic Compounds; Energy, Polarity and Reactivity of the M-C Bond.
2. Main-Group organometallics; Methods of Preparation; Alkali Organometallics.
3. Organometallics of Groups 2 and 12.
4. Organometallics of the Boron Group.
5. Organoelement Compounds of the Carbon Group.
6. Organoelement Compounds of the Nitrogen Group.
7. Organoelement Compounds of Selenium, Tellurium; Organometallics of Copper, Silver and Gold.
8. Organometallic Compounds of the Transition Elements.
- 9-10. The 18-Valence-Electron Rule, Ligands.
11. Metal-Metal Bonds and Transition Metal Atom Clusters.
12. Organometallic Catalysis I.
13. . Organometallic Catalysis II.
14. Summary
15. ZH



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**Requirements, evaluation and grading:**

**Required and recommended readings:**