



COURSE DATASHEET

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| Semester: | 2015/16/2 |
| Course: | Metalloorganic Chemistry I. |
| Code: | VEMKAKV212F |
| Responsible department: | Department of Organic Chemistry |
| Department code: | MKOK |
| Responsible instructor: | dr. József Kaizer |

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: