

Module P 106: Organometallic Chemistry and Polymerization Catalysts

Learning objectives:

The Students gain insight into polymerization catalysis and improve their knowledge in organometallic chemistry.

Course units and temporal allocation:

Module P 106 'Organometallic Chemistry and Polymerization Catalysts' is comprised of the following course units:

| | HPW | Semester |
|-------------------|-----|----------|
| Lecture | 2 | WS |
| Laboratory Course | 6 | WS |

This module will be offered by lectures of Organic and Inorganic Chemistry

Course content:

During the **lecture** the following topics are discussed: reactivity of the metal carbon bond, catalytic applications of organometallic compounds and coordinative polymerizations.

In the **laboratory course** the students improve skills to work with highly air and moisture sensitive compounds and use them in teamwork with PhD students and postdocs to address catalysis relevant questions.

Entrance requirements:

None

Assessment:

A written examination (if less than seven students enrol for this course an oral examination) covering the content of the lecture amounts to 60 % and the quality of the lab course to 40%. Lab. course assessment results from the quality of the catalyst syntheses and the quality of the catalytic experiments. The kind of examination (written or oral) and the date are given at the beginning of the semester.

Work load:

The lecture results in 60 hours work load including lecture preparation and the laboratory course work load is 120 hours. 30 hours are needed to prepare for the examination. Overall work load: 210 h.

ECTS Credit Points: 7