

Module P 106: Organometallic Chemistry and Polymerization Catalysts

(Fak225774)

Learning objectives:

The students will gain insight into polymerization catalysis and improve their knowledge of organometallic chemistry.

Course units and temporal allocation:

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

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

This module will be offered by lecturers of organic and inorganic chemistry.

Course content:

The following topics are discussed during the **lectures**: 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 relevant questions regarding catalysis.

Entrance requirements:

None.

Assessment:

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

Work load:

The lectures result in 60 hours work load including lecture preparation and the laboratory course work load is 120 hours. Thirty hours are needed to prepare for the examination. The overall work load is 210 hours.

ECTS Credit Points: 7