

Module P 207: Catalyst Design

Learning objectives:

The students gain insight into the field of catalyst design.

Course units and temporal allocation:

Module P 207 'Catalyst Design' is comprised of the following course units:

	HPW	Semester
Lecture	2	SS
Laboratory Course	8	SS

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

Course content:

During the **lecture** the following topics are discussed: basics and concepts of catalyst design: explorative coordination chemistry, mechanistic studies and combinatorial catalysis research.

In the **laboratory course** the students develop skills to run catalytic experiments and use them in teamwork with PhD students and post-docs to address open, 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 50 % and the quality of the lab course to 50 %. Lab. course assessment results from the quality of the catalyst syntheses and the quality of the catalytic experiments.

Work load:

The lecture results in 60 hours work load including lecture preparation and the lab course work load is 180 hours. 30 hours are needed to prepare for the examination.
Overall work load: 270 h.

ECTS Credit Points: 9