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|--------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|
| <b>Modulbezeichnung:</b> Inorganic chemistry (CM1-IC)<br>(Inorganic chemistry)                                     |                        | <b>15 ECTS</b>               |
| Modulverantwortliche/r: Karsten Meyer                                                                              |                        |                              |
| Lehrende: Romano Dorta, Nicolai Burzlaff, Sjoerd Harder, Ivana Ivanovic-Burmazovic, Julien Bachmann, Karsten Meyer |                        |                              |
| Startsemester: SS 2020                                                                                             | Dauer: 2 Semester      | Turnus: halbjährlich (WS+SS) |
| Präsenzzeit: 225 Std.                                                                                              | Eigenstudium: 225 Std. | Sprache: Englisch            |

#### Lehrveranstaltungen:

##### **A. Advanced Inorganic Chemistry I (WS)**

##### **B. Advanced Inorganic Chemistry II (SS)**

Special Topics in Inorganic Chemistry (SS 2020, Vorlesung, 2 SWS, Julien Bachmann et al.)

Special Topics in Inorganic Chemistry (Seminar) (SS 2020, Seminar, 1 SWS, Julien Bachmann et al.)

##### **C. Advanced Chemical Chemistry - Lab Course and Seminar**

Attendance of lab course is compulsory!

Advanced Inorganic Chemistry - Practical (SS 2020, Praktikum, 8 SWS, Die Dozenten der Anorg. Chemie)

Advanced Inorganic Chemistry - Seminar Talk (Vortragsseminar zum Mitarbeiterpraktikum Anorganische Chemie) (SS 2020, Seminar, 1 SWS, Andreas Scheurer)

#### Inhalt:

- Introduction to current research topics of Inorganic Chemistry
- establishing fundamental knowledge required for appreciation of more specialized topics in Inorganic Chemistry; the expected standard is based on a research oriented masters program.
- extension of knowledge by offering the students a choice of lab courses and lectures in specialized fields of Inorganic Chemistry taught by an expert lecturer of the Department
- intensifying practical experience in selected topics of analytical and preparative laboratory work on an advanced skill level

#### Lernziele und Kompetenzen:

The students

- acquire knowledge and expertise required for danger evaluation and practical handling of novel inorganic compounds
- prepare and characterize compounds not previously introduced in mandatory practical courses
- apply and evaluate the guiding principles of inorganic chemistry to practical-preparative problems
- manage and apply the fundamental safety regulations important to handling hazardous compounds and instruct other coworkers in relevant safety topics

#### Studien-/Prüfungsleistungen:

Mündliche Prüfung Anorganische Chemie (Prüfungsnummer: 65001)

(englische Bezeichnung: Oral Examination on Inorganic Chemistry)

Prüfungsleistung, mündliche Prüfung, Dauer (in Minuten): 45

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

O45 (PL): Oral examination 45 min, 2 examiners,

A.: LEC (SL), B.: LEC (SL), C.:LAB (SL)

Prüfungssprache: Englisch

Erstablesung: WS 2020/2021, 1. Wdh.: SS 2021

1. Prüfer: Karsten Meyer

#### Organisatorisches:

Module frequency: **A.** winter term, LEC (SL); **B.** summer term, LEC (SL); **C.** winter and summer term, LAB (SL) + Ex (SL)

Calculation of the grade for the module: Result of the oral examination (100%)

**Bemerkungen:**

Module compatibility: M.Sc. Chemistry (Mandatory Module)/M.Sc. Molecular Science (Elective module)