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**Modulbezeichnung:** Inorganic Chemistry - Lab (CM-IC-Lab) 10 ECTS

(Inorganic Chemistry - Lab)

Modulverantwortliche/r: Karsten Meyer

Lehrende: Die Dozenten der Anorg. Chemie

Startsemester: WS 2020/2021

Dauer: 1 Semester

Turnus: halbjährlich (WS+SS)

Präsenzzeit: 225 Std.

Eigenstudium: 75 Std.

Sprache: Englisch

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### Lehrveranstaltungen:

- Attendance in lab course is compulsory!
- Attendance at safety instruction is compulsory!
- Attendance in winter or summer term possible!
- A valid laboratory insurance is mandatory for participation in the lab course - see: [www.laborversicherung.de](http://www.laborversicherung.de)

Inorganic Chemistry - LAB (WS 2020/2021, Praktikum, 15 SWS, Karsten Meyer et al.)

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### Inhalt:

- practical laboratory experience aiming at introducing students to current and state of the art inorganic research topics
- work experience in a team of researchers
- establishing fundamental knowledge required for addressing individual molecular research problems at a state of the art level
- independent and self-driven approach to problem solving in an assigned research project

### Lernziele und Kompetenzen:

The students

- apply acquired fundamental knowledge and practical skills to an individual research problem that they work on independently
- manage and apply the fundamental safety regulations important to handling hazardous compounds and instruct other coworkers in relevant safety topics
- rank their own research results in the context of current literature and research papers in the field and record their results in appropriate scientific writing and documentation style
- give oral and written presentations of the results and acquired knowledge in an appropriate scientific style in English language

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### Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] **Chemie (Master of Science)**

(Po-Vers. 2020w | NatFak | Chemie (Master of Science) | Fachliche Wahlpflichtmodule | Inorganic Chemistry | Inorganic Chemistry laboratory)

[2] **Chemie (Master of Science)**

(Po-Vers. 2020w | NatFak | Chemie (Master of Science) | Ergänzende Wahlpflichtmodule | Inorganic Chemistry | Inorganic Chemistry laboratory)

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### Studien-/Prüfungsleistungen:

Inorganic Chemistry Laboratory (Prüfungsnummer: 65021)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Graded Lab Protocol of 30 - 50 pages (plus raw data documentation)

Prüfungssprache: Englisch

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

1. Prüfer: Karsten Meyer

**Organisatorisches:**

**Please note:**

- Students have to register for the module in their first semester (check registration periods)!
- Lab course is held as an in-class-course
- Lab course can be chosen in winter or summer term
- Time and place by appointment (in one of the involved working groups of Inorganic chemistry)
- Registration / further information: please contact Dr. Achim Zahl (achim.zahl@fau.de)

**Bemerkungen:**

Module compatibility:

- Lab module within the **Core module „Inorganic Chemistry“** in M. Sc. Chemistry
- Lab module within the **Compulsory Elective Module** in M.Sc. Chemistry (if not chosen as Core module) or M. Sc. Molecular Science