

Modulbezeichnung: Research Module Inorganic chemistry (IC-R-Lab) **15 ECTS**
(Research Module Inorganic chemistry)

Modulverantwortliche/r: Karsten Meyer

Lehrende: Nicolai Burzlaff, Romano Dorta, Die Dozenten der Anorg. Chemie, Karsten Meyer, Sjoerd Harder

Startsemester: WS 2020/2021	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 345 Std.	Eigenstudium: 105 Std.	Sprache: Englisch

Lehrveranstaltungen:

Research lab course (23 SWS) in one of the work groups of Inorganic Chemistry

- Attendance at lab course is compulsory!
 - Attendance at safety instructions 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
- Research module IC (WS 2020/2021, Praktikum, 23 SWS, Anwesenheitspflicht, Die Dozenten der Anorg. Chemie)

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

Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

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

[1] **Chemie (Master of Science): 3. Semester**

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

Studien-/Prüfungsleistungen:

Forschungsmodul Inorganic Chemistry (Prüfungsnummer: 65511)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Lab(PL): graded lab protocol of approx. 25 pages plus raw data documentation

Prüfungssprache: Englisch

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

1. Prüfer: Karsten Meyer

Organisatorisches:

- Students have to register for the module (check registration periods)!

- Attendance in lab course and safety instructions are compulsory!
- 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), please contact the supervisor directly

Bemerkungen:

Please note:

- Research lab project (ca. 6 weeks: 21SWS LAB/2SWS Seminar) full time in a work group of the student's choice in Inorganic Chemistry