
Modulbezeichnung: Research Module Physical chemistry (PC-R-Lab) 15 ECTS
(Research Module Physical chemistry)

Modulverantwortliche/r: Hans-Peter Steinrück

Lehrende: Dirk Guldi, Hans-Peter Steinrück, u. a. Hochschullehrer

Startsemester: SS 2021

Dauer: 1 Semester

Turnus: halbjährlich (WS+SS)

Präsenzzeit: 225 Std.

Eigenstudium: 225 Std.

Sprache: Englisch

Lehrveranstaltungen:

Research project in Physical Chemistry (ca. 23 SWS/LAB) full time in a work group of the student's choice at a research group in Physical 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 PC (SS 2021, Praktikum, 23 SWS, Anwesenheitspflicht, Dirk Guldi et al.)
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Inhalt:

Research project in Physical Chemistry, lasting 6 weeks (ca. 15 SWS/LAB) full time in a work group of the student's choice at a research group in Physical Chemistry at the Department of Chemistry and Pharmacy (Attendance in lab course is compulsory!)

- introduction to the current issues of research in the field of Physical Chemistry
- integration in research group and instruction in scientific work
- familiarisation in fundamental concepts within a special subject of Physical Chemistry - to the limits of science
- finding answers to open questions in research project by means of experimental work

Lernziele und Kompetenzen:

Students

- apply and transfer knowledge acquired during their studies to handle and solve open questions in research project
 - interpret experimental data independently
 - compare and evaluate results with literature data
 - illustrate data in meaningful graphs
 - present and discuss scientific results referring to literature in verbal and written form
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Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

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

[1] Chemistry (Master of Science)

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

Studien-/Prüfungsleistungen:

Forschungsmodul Physical Chemistry (Prüfungsnummer: 65531)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

LAB (PL): graded lab protocol of approx. 20 pages plus raw data documentation

Prüfungssprache: Englisch

Erstablingung: SS 2021, 1. Wdh.: WS 2021/2022

1. Prüfer: PC-R-Lab (N70013)

Organisatorisches:

Please note:

- Students have to register for the module on MeinCampus (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 Physical chemistry), please contact the supervisor directly

Bemerkungen:

Please note:

- Research lab project (ca. 8 weeks: 21SWS LAB/2SWS Seminar) full time in a work group of the student's choice in Physical Chemistry