Modulbezeichnung: **Theoretical chemistry (CS-TC)** **15 ECTS**
(Theoretical chemistry)

Modulverantwortliche/r: Andreas Görling
Lehrende: Andreas Görling, Dozenten der Theoretischen Chemie

Startsemester: WS 2019/2020	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 195 Std.	Eigenstudium: 255 Std.	Sprache: Englisch

Lehrveranstaltungen:

Research project in Theoretical Chemistry, lasting 6 weeks (ca. 15 SWS/LAB) full time in a work group of the student's choice at a research group in Theoretical and Computer Chemistry as well as Computer Chemistry Centre at the Department of Chemistry and Pharmacy

- Attendance at lab Course is compulsory!

Specialisation module TC (WS 2019/2020, Praktikum, 15 SWS, Andreas Görling et al.)

Es wird empfohlen, folgende Module zu absolvieren, bevor dieses Modul belegt wird:

Quantum Chemistry

Inhalt:

- Practical introduction to current and state- of- the- art research topics in the field of quantum and computer chemistry
- Integration into a research group
- Guided work on a current research project using the methods of quantum and computer chemistry
- Attempts to solve independently a scientific problem

Lernziele und Kompetenzen:

Students

- apply and transfer knowledge acquired during their studies to handle and solve open questions in research projects in quantum and computer chemistry
- put their own research results in relation to current literature and research papers in the field, and record their results in appropriate scientific writing and documentation style
- present their own 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): ab 3. Semester**
(Po-Vers. 2009 | NatFak | Chemie (Master of Science) | Vertiefungsmodul | Theoretische Chemie)

Studien-/Prüfungsleistungen:

Protokoll Theoretische Chemie (Prüfungsnummer: 67001)
(englische Bezeichnung: Notes: Theoretical Chemistry)
Prüfungsleistung, Protokollheft
Anteil an der Berechnung der Modulnote: 100%
weitere Erläuterungen:
Assessment and examinations: LAB (PL)
Calculation of the grade for the module: Final grade of the written report
Prüfungssprache: Englisch

Erstablegung: WS 2019/2020, 1. Wdh.: SS 2020