

PROJEKT-MODULES

in the Master of Science (M. Sc.) Chemistry program

Information on regulations

(August 1, 2018)



Chemistry
Department



How to choose and how to perform P-modules:

1. Project modules (P-/P-RP modules) serve to deepen your knowledge in the Master's program, to focus on later research projects (e.g. Master's thesis), and to broaden your horizons.
2. In order to make the choice of your P (P-RP) modules easier for you, we briefly summarize here the module and election provisions together:
 - a) If you have successfully completed **one A and one E module**, you can select the P modules. In Klips2 you find all P-modules by selecting the course no. to 14816.12* or 14816.13*. Additionally, you may have a look in the module handbook.
 - b) To get started, you have to get in contact with a competent lecturer. This lecturer is responsible for the entire module and also conducts the final module examination. The regulations are defined in the module handbook and comprise a lecture, a seminar and a project internship including project report. The person responsible for the module is obliged to certify the prerequisites for the oral final examination and to conduct the examination according to the usual rules. Please point this out to the person responsible for the module at the beginning.
 - c) If you are not sure whether a person can act as supervisor responsible for the module (examination authorization!), please contact Profs. Griesbeck or Wickleder (Master examination board) and/or the Master examination office. We will check this and if necessary take care of the regular operation of the module.
 - d) If you want to carry out the project module abroad or in industry (or both), this is possible if a Department lecturer takes responsibility for this module, accompanies or co-manages and acknowledges the services carried out abroad (or in industry) and conducts the module completion examination. Additionally it is necessary that you still successfully complete all parts of the module, i.e. lecture, seminar and lab project.
 - e) If you are taking your P module or another module abroad, please also inform the management of the Department of Chemistry (Dr. Henneken). This enables us to register students' activities abroad for statistical purposes. This does not give you any obligations.
3. The **final oral examination** at the end of the P module covers all parts of the module, i.e. lectures, seminars and internships. For this reason, these parts must be sensibly matched to each other. Discuss this always with the person responsible for the module and if necessary also with the Master examination board. In the best case, you will visit a lecture given by the person responsible for the module and carry out a seminar and internship in his/her working group. Other combinations are possible, but must be agreed in advance.
4. When you have made all arrangements, announce your participation in the P-module (including title) to the Master examination office by e-mail. If you have successfully completed all parts of the module and would like to register for the final examination, please inform the examination office in advance about the date of your oral exam by e-mail.
5. **Where to find modules and what P-modules can be chosen:**

All P-modules have to be from areas A ("Chemical Modules" or B ("Non-Chemical Modules").

The P-RP module has to be from area A ("Chemical Modules")

Only one module from area B ("Non-Chemical Modules") can be chosen.

Two P (P-RP) modules in one research group is excluded without exemptions.

All three P (including the P-RP) modules in one chemical institute of the Department is **highly undesirable and should be avoided.**

Area A ("Chemical Modules") General Sub-areas:

- P-AC Inorganic Chemistry
- P-OC Organic Chemistry
- P-PC Physical Chemistry
- P-ThC Theoretical Chemistry (Quantum Chemistry)
- P-BC Biochemistry
- P-TeC Technical Chemistry
- P-NC Nuclear Chemistry
- P-MC Macromolecular Chemistry

Area B ("Non-Chemical Modules") General Sub-areas:

- P-Phy Physics
- P-Cry Crystallography
- P-Min Minerology
- P-Gen Genetics
- P-Inf Informatics
- P-Pha Pharmacology and Toxicology
- P-PhC Physiological Chemistry

Current list of P-modules sub-areas (in German):

- Bioorganische Chemie, Asymmetrische Katalyse, Kombinatorische Chemie
- Radionuklidproduktion, organische Radiochemie, Markierungschemie
- Geo- und Kosmochemie
- Statistische Thermodynamik, Mischphasenthermodynamik
- Relativistische Quantenchemie, Computerchemie
- Enantioselektive Katalyse und Synthese, Metallorganische Chemie
- Photochemie, Radikalchemie
- Bioenergetik, Membranbiochemie, Mikro- und Molekularbiologie
- Molekulare Mechanismen synaptischer Inhibition
- Isolierung, Strukturaufklärung und Biosynthese von Naturstoffen
- organische, lichtemittierende Materialien (OLEDs und PLEDs)
- Organische Solarzellen und holographische Speicher
- Festkörper- und Koordinationschemie nichtmetallischer Materialien
- Präparative anorganische Molekülchemie, Fluorchemie
- Koordinationspolymere und metallorganische Gerüstverbindungen
- Koordinationschemie, Elektrochemie, Organometallchemie
- Totalsynthese bioaktiver Naturstoffe und deren Analoga
- Wasser-Diesel-Gemische als Kraftstoff der Zukunft,
- Mikroemulsionen, komplexe Fluide
- Synthese neuartiger Katalysatoren, Organo- und Elektronentransferkatalyse
- Umweltverträgliche („grüne“) Chemie, ionische Flüssigkeiten
- Makromolekulare Chemie, Polymerschichten und Polymere Membranen
- Funktionale Materialien, supramolekulare Chemie, molekulare Schalter
- Moderne Methoden der Massenspektrometrie
- Moderne Methoden der Kernresonanzspektroskopie
- Moderne Methoden der Festkörperanalytik mit Röntgenbeugungsmethoden
- Kalorimetrie und Kinetik

In order to find the current offers for P-modules please check in Klips2 selecting the course no. to 14816.12* or 14816.13*