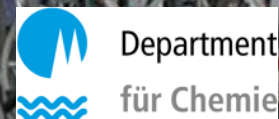




MSc Chemistry: Welcome!

Winter Semester 2023

Winter Semester 2023
Class #26 @ UzK



Welcome to the Department of Chemistry!

Who is responsible?



Prof. Dr. Annette Schmidt
(Physical Chemistry)
Chairperson M.Sc.
Examination Board
annette.schmidt@uni-koeln.de



Prof. Dr. Axel Griesbeck
(Organic Chemistry)
Vice-Chairperson M.Sc.
Examination Board
griesbeck@uni-koeln.de



Dr. Heike Henneke
(Administration)
Student Advisory Service,
International Affairs
hhenneke@uni-koeln.de

Marion Danitz
Examination Office
Raum: HS 118
Tel. +49-221-470-2239
Email: marion.danitz(at)uni-koeln.de

Office hours:
Wed 13:30-16:00 h
Thu 10:00-13:00 h



Department
für Chemie



MSc Chemistry @University of Cologne

-> research-focused training and specialization in chemistry



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Internationalization: Studying without being on site

- **Lectures** via ILIAS (our study platform) and live (via Zoom):
 - Technical check: laptop (or equivalent) with camera and microphone/speaker
 - internet connection – stable connection with 1 Mbit/s or more is needed
- ➔ If this infrastructure is not available to you, **please do not register for the modules.**
- Regular active participation (camera on, ask questions, communicate in chat and e-mails, read recommended material)



Program Language = English only!

But:

It is a good advise to fetch up with some German!

(helps e. g. with ordering beer, talking to administrative people, ...)



Train your English!

Active:

- writing (reports, written exams, ...)
- speaking (presentations, oral exams, ...)

Passive:

- reading (journals, ...)
- listening (lectures, ...)



Your professors
are not native
speakers neither!

Department
für Chemie

Your Expectations: The Master Program





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MSc Chemistry

Fundamental courses

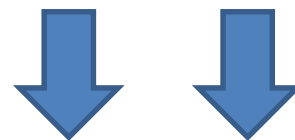
- 3 **A modules**: Advanced chemistry chapters (Lecture + seminar) -> **A-IC - A-OC - A-PC - A-TC - A-BC**
- 3 **E modules**: Experimental lab course
-> **A-IC - A-OC - A-PC - A-TC - A-BC**

Specialization

- 2 **P modules**: Project oriented lab course, specialization lecture & seminar
- **P-RP module**: **P** module + **R**esearch **P**roposal
- **S module**: **S**upplementary module)
- **M module**: **M**aster thesis

List of Modules

credits %total grade



1	MN-C-A1	ADVANCED MODULE 1	6	6/120
2	MN-C-A2	ADVANCED MODULE 2	6	6/120
3	MN-C-A3	ADVANCED MODULE 3	6	6/120
4	MN-C-E1	EXPERIMENTAL MODULE 1	9	9/120
5	MN-C-E2	EXPERIMENTAL MODULE 2	9	9/120
6	MN-C-E3	EXPERIMENTAL MODULE 3	9	9/120
7	MN-C-P1	P MODULE1	12	14/120
8	MN-C-P2	P MODULE 2	12	14/120
9	MN-C-P-RP	P MODULE & RP	15	17/120
10	MN-C-S	S MODULE	6	-
11	MN-C-Ma	MASTER MODULE	30	30/120



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Recommended study plan – 1st Semester

Semester	Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
1	M-A1	4		6
	M-E1		8	9
	M-A2	4		6
	M-A3 or	4		6
	M-E2		8	9
				27 or 30

- **A- BC (Biochemistry)** cannot be taken in the first semester!

Recommended study plan – 2nd Semester

Semester	Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
2	M-E2 or M-A3	4	8	9 Or 6
	M-E3		8	9
	M-P1	2-4	9-10	12
	M-P2 starting...	2-4	9-10	12
				37-42



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Recommended study plan – 3rd/4th Semester

Semester	Module	Type of Module	Lecture + Seminar (hours per week)	Lab course (weeks)	Credits
3	M-P-RP	Project module II	2-4	9-10	15
	M-P-S	Supplementary Module	maybe	maybe	6
					21-33
4	M-Ma	Master-Thesis (6 months)		26	30
					30



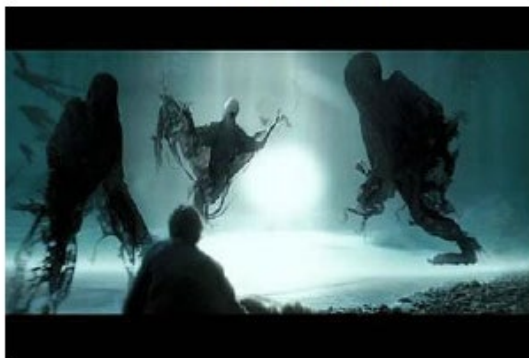
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The Mentor Program

- Each MSc student is assigned to mentor (professor of the Chemistry department)
 - can be contacted for individual study-related counseling
 - approvals S module concept

Dementoren:



Mentoren:



7369401	Mathur
7423779	Lindfors
7355327	Niefind
7354993	Schmidt
7331444	Kath-Schorr
7349796	Schmidt
7378021	Klein
7420723	Schubert
7420729	Schäfer
7366826	Wickleder
7323543	Strub
7364493	Ruschewitz
7423515	Giernoth



Specialization: optional - but no obligation

One **Master of Chemistry** Four Areas of Specialization



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Nanochemistry & Functional Materials

This specialization offers conceptual and experimental advancement in the chemistry of nanomaterials.

Starting from fundamental concepts of nanochemistry you will acquire skills in the preparation, investigation and characterization of nano-structured materials using a broad toolset of synthetic and analytical methods. You will experience the importance of materials in many applications and will learn to assess their potential in energy harvesting and storage, catalysis, (gas)sensing, biomedical applications and many more.

Program Advisors:

[Prof. Sanjay Mathur](#)
[Prof. Uwe Ruschewitz](#)

Advanced and Experimental Modules:
Inorganic and Physical Chemistry
3 Project modules and Master thesis in this area.



Catalysis & Synthesis

This program gives you access to modern concepts in synthesis and catalysis.

The program will provide you with training in the chemical synthesis of organic molecules with an emphasis on metal-, organo- and photocatalysis. You will learn about key concepts and how to apply modern synthetic (and analytical) methods for the synthesis of relevant compounds, such as bioactive agents, in an efficient, stereoselective and sustainable manner.

Program Advisors:

[Prof. Ralf Giernoth](#)
[Prof. Albrecht Berkessel](#)

Advanced and Experimental Modules:
Inorganic and Organic Chemistry
3 Project modules and Master thesis in this area.



Photonics & Photochemistry

This program gives you an insight to the exciting world of photonics and photochemistry.

You will be trained in the basics of photochemistry and photophysics of p-conjugated (supra-)molecular and plasmonic systems. You will acquire skills in designing structure-property relations and in using light to control chemical reactions. In addition, you will be involved in the preparation of photonic devices such as light-emitting diodes, solar cells, optical sensors and switches. Finally, you will learn how to use (laser-based) spectroscopic techniques for the in-depth characterization of the above systems.

Program Advisors:

[Prof. Klaus Meerholz](#)
[Prof. Axel Griesbeck](#)

Advanced and Experimental Modules:
Organic and Physical Chemistry
3 Project modules and Master thesis in this area.



Bioorganic & Bio- logical Chemistry

This program gives you access to the exciting world of bioorganics.

Three modules are offered with a focus on biochemistry and bioorganic chemistry that provides students with a background in biochemistry, new insights into cellular enzymology with clinical aspects, structural biochemistry using X-ray crystallography, peptide synthesis and neuro-biochemistry.

Program Advisors:

[Prof. Günter Schwarz](#)
[Prof. Hans-Günther Schmalz](#)

Advanced and Experimental Modules:
Biochemistry and Organic Chemistry
3 Project modules and Master thesis in this area.

How to find information

**Universität zu Köln**

Suchbegriff

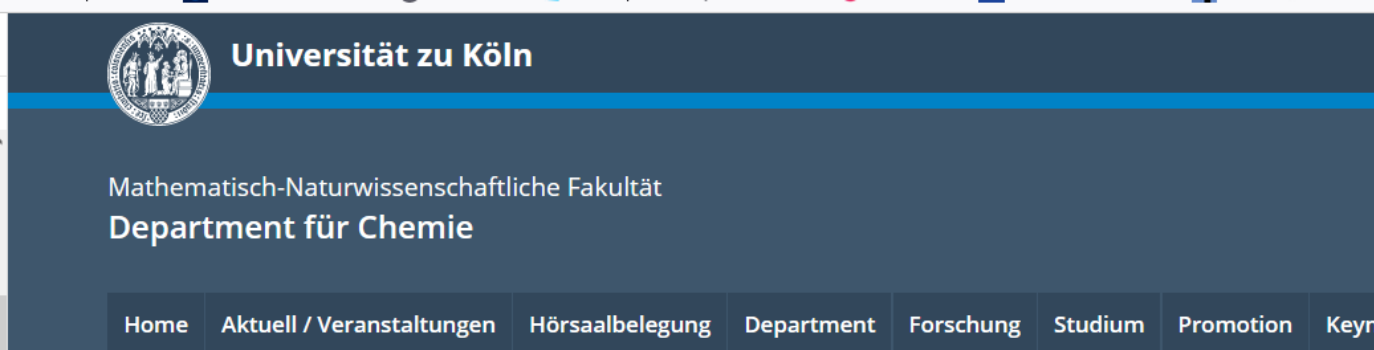
Mathematisch-Naturwissenschaftliche Fakultät
Department für Chemie

[Home](#) [Aktuell / Veranstaltungen](#) [Hörsaalbelegung](#) [Department](#) [Forschung](#) [Studium](#) [Alder/Bayer/Vogel Lectures](#) [Kontakt](#)

Zur Übersichtsseite Studium

Studiengänge	Allgemeine Infos	Studieninfos
Bachelor Chemie	Fachschaft Chemie	Erstsemesterinformationen
Master Chemie	Laborversicherung	Unterlagen zu Informationsveranstaltungen ← <i>This presentation</i>
Bachelor Biochemie	Evaluation	Prüfungsorganisation ← <i>Exam dates, registration periods</i>
Master Biochemistry	Anregungen und Kritik	Prüfungssekretariate
Lehramt	Bafög-Beauftragter	Studienberatung
Chemie für Biologen/innen		Studium Integrale
Chemie für Mediziner/innen	Internationales	Stundenpläne ← Timetable
Studiengänge in Kooperation	Schule und Studieninteressierte	Vorlesungsverzeichnis
	Promotion	Dokumente/Ordnungen ← Regulations
		Tutorien Chemie

Lecture Timetables



Chemie + > Studium + > Studieninfos + > Stundenpläne

Stundenpläne

Studiengang Chemie

Bachelor of Science	Master of Science
1. Fachsemester 2. Fachsemester 3. Fachsemester 4. Fachsemester 5. Fachsemester	Advanced and Experimental Modules - Lecture Timetable WiSe 22/23 - Lecture Timetable SoSe2023 - P-Module Information on P-Modules Project-Modul with Research Proposal

<https://chemie.uni-koeln.de/en/studies/information-on-studies/time-tables>



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für Chemie



Module Responsibilities (Summer 2023)

Advanced (A) Modules:				☎ 0221-470
	IC	Prof. Dr. Sanjay Mathur Dr. Jörn Bruns	Sanjay.mathur@uni-koeln.de j.bruns@uni-koeln.de	-4107 -76103
	OC	Prof. Dr. Bernd Goldfuss	goldfuss@uni-koeln.de	-5729
	OC	PD Dr. Dirk Blunk	d.blunk@uni-koeln.de	-5213
	OC	Prof. Dr. Ralf Giernoth	ralf.giernoth@uni-koeln.de	-3094
	PC	Prof. Klas Lindfors	Klas.lindfors@uni-koeln.de	-4265
	TC	PD Dr. Michael Hanrath	michael.hanrath@uni-koeln.de	-6889
Experimental (E) Modules:				
	IC	Prof. Dr. Uwe Ruschewitz	uwe.ruschewitz@uni-koeln.de	-3285
	OC	Prof. Dr. Ralf Giernoth	ralf.giernoth@uni-koeln.de	-3094
	PC	Dr. Dirk Hertel	Dirk.hertel@uni-koeln.de	-2494
	TC	PD Dr. Michael Hanrath	michael.hanrath@uni-koeln.de	-6889
(Information subject to change)				

Important Dates – Obligatory!

Module	Start Date	Time and Place
IC-A	lecture: 12.10.23 (Thu) seminar: 23.10.23 (Mo)	10:00 AC 414 9:00 HS III
IC-E	05.02.2024 / 10:00 (Mo)	Preliminary meeting & safety instructions
OC-A	lecture: 11.10.23 / 10:00 (We) seminar: 18.10.23 / 16:00 (We)	Lecture Hall III Lecture Hall III
OC-E	18.10.2023 / 14:30 (We) (block course 13.11. – 22.12)	Preliminary meeting & safety instructions: Seminar Room B
PC-A	lecture: 10.10.23 / 11:00 (Tue) seminar: 11.10.23 / 13:00 (Wed)	11:00, Exp. Seminar Room 1 13:00, Exp. Seminar Room 2
PC-E	17.10.23 / 9:00 – 10:30 (Tue)	Preliminary meeting & safety instructions Seminar Room A
TC-A	09.10.23 / 12:00 (Mo)	12:00, HS II (Hörsaal II)
TC-E	in block mode, by appointment	more infos by M. Hanrath

Important Dates – Obligatory!

- **A-Modules:**
- Seminar kick-off meetings are compulsory
 - Assignment of talk topics
 - Later assignment not possible!!
- **E-Modules:**
- E module kick off meetings are compulsory
 - Safety instructions
 - No attendance to course is possible beyond

Important: Obligatory!

Enrollment period for all Advanced and Experimental Modules:
in KLIPS

Oct 09 to Oct 15, 2023

- **Module participation only possible when registered!**
- Registrations are valid only for the actual semester!
- E-Module registration only when corresponding A-Module is taken!
- Register only for the modules you plan to study this semester – and de-register, if you change your mind (or inform the examination office)!
- Be fair and do not block places others are waiting for!



Written and oral exams

- Registration is required for all exams!

- 7 days before exam date **Latest**

Without registration for the exam you cannot participate.

- Written exams: online registration in KLIPS
- Oral exams: individual regulations may apply
- Absence (& no medical attest) -> failed attempt ☹️
 - some exams are restricted in trial numbers

Online Registration for Modules: KLIPS 2.0

Universität zu Köln KLIPS 2.0

Student: Test Test88Chemie

Search

Log-out

Mr. Test88Chemie, Test

Email: klips88032@verw.uni-koeln.de

Homepage: -

Your picture could be displayed here

Teaching & Research	Studies	Resources	Services
★ Course bookmarks	Print Documents	Calendar	StudentCard Image Upload
	Social Fee	Personal Settings	
	Student Dossier		
	Student Files		
	Applications		
	Course Registration		
	Exam Registration		
	Exam Results		
	Transcript of Records		
	Accreditation/Recognition		
	Registration Status		
	Current/Home Address		

Registration status Studienstatus

Department für Chemie

Universität zu Köln

Online Registration for Modules: KLIPS 2.0

Browser window showing the KLIPS 2.0 interface for the University of Cologne. The URL is <https://klips2.uni-koeln.de/co/webnav.ini>. The user is logged in as "Test88Chemie, Test".

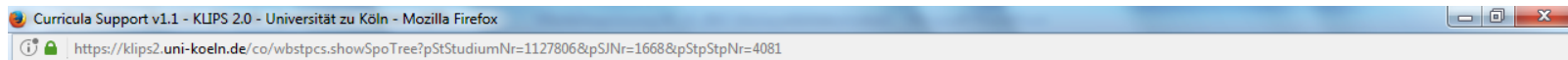
Study

ID of study programme	Name of study programme	Curriculum	Status (17W)	Date	Subject-specific semester	Time limitations	Suspensions
1110 88 032	Chemie	20152	registered	01.10.2017	6 FS / -	-	-

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Online Registration for Modules: KLIPS 2.0



Test88Chemie, Test (0088032)

Curricula Support v1.1

88 032 Chemie (HG-NRW/20152, Master programme, current); eingeschrieben
Academic year 2017/18

Subject-specific semester: 5

Go to

Registration status

Operation

Display Refresh Show inact. nodes

achievements Show

Node **all** Alloc. achievement Inact. result Exam date Registered examination
Reg. course Semester plan

Academic achievements, by: 09.01.2017 11:05

Node-Name	rec. sem.	Credits	Duration	WF	Results	Sel	Pass	DF	RM	Cre	CREF	Grade	MP	WA	FRV
☐ [20152] Chemie		120		1			P	EN	R	0					
☐ [20152] Advanced and Experimental Modules		45		1		✓	P	EN	R	0					
☐ [20152] Project Modules		39		1			P	EN	R	0					
☐ [20152] Supplementary Module		6		0			P		R	0					
☐ [20152] Master Module		30		1			P	EN	R	0					

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für Chemie



Online Registration for Modules: KLIPS 2.0

Curricula Support v1.1 - KLIPS 2.0 - Universität zu Köln - Mozilla Firefox

https://klips2.uni-koeln.de/co/wbstpcs.showSpoTree?pStStudiumNr=1127806&pSJNr=1668&pStpStpNr=4081

Test88Chemie, Test (0088032)

Curricula Support v1.1

88 032 Chemie (HG-NRW/20152, Master programme, current); eingeschrieben

Academic year 2017/18

Subject-specific semester: 5

Go to

Registration status

Operation

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achievements Show

Node all Alloc. achievement Inact. result Exam date Registered examination Reg. course Semester plan

Academic achievements, by: 09.01.2017 11:05

Node-Name	rec. sem.	Credits	Duration	WF	Results	Sel	Pass	DF	RM	Cre	CREF	Grade	MP	WA	FRV
☐ [20152] Chemie		120		1			P	EN	R	0					
☐ [20152] Advanced and Experimental Modules		45		1		☒	P	EN	R	0					
☐ [20152] Inorganic Chemistry		15		1		☒ W	P	EN	R	0					
☐ [20152] Organic Chemistry		15		1		☐ W	P	EN	R	0					
☐ [20152] Physical Chemistry		15		1		☐ W	P	EN	R	0					
☐ [20152] Biochemistry		15		1		☐ W	P	EN	R	0					
☐ [20152] Theoretical Chemistry		15		1		☒ W	P	EN	R	0					
☐ [20152] Project Modules		39		1			P	EN	R	0					
☐ [20152] Supplementary Module		6		0			P		R	0					
☐ [20152] Master Module		30		1			P	EN	R	0					

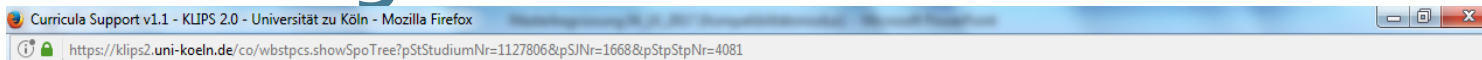
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Remember:

- Choose only the modules you want to study in the actual semester.
- De-register, if you change your mind!



Online Registration for Modules: KLIPS 2.0



Test88Chemie, Test (0088032)

Curricula Support v1.1

88 032 Chemie (HG-NRW/20152, Master programme, current); eingeschrieben
Academic year 2017/18

Subject-specific semester: 5

Go to

Registration status

Operation

Display Refresh Show inact. nodes

achievements Show

Node all Alloc. achievement Inact. result Exam date Registered examination
Reg. course Semester plan

Click on the plus symbol

Academic achievements, by: 09.01.2017 11:05

Node-Name	rec. sem.	Credits	Duration	WF	Results	Sel	Pass	DF	RM	Cre	CREF	Grade	MP	WA	FR
[20152] Chemie		120		1			P	EN	R	0					
[20152] Advanced and Experimental Modules		45		1			P	EN	R	0					
[20152] Inorganic Chemistry		15		1		W	P	EN	R	0					
[20152] Organic Chemistry		15		1		W	P	EN	R	0					
[5816A-OC] Advanced Organic Chemistry		6		6			P	EN	R						
[5816A-OC] Lecture				1			P		R						

Examination(s) in academic year	Exam	Lecturer (Assistant)	Place (1st session)	Time (1st session)
14816.1120 17W 2SH L Advanced Organic Chemistry (MN-C-A-OC)		Blunk D, Breugst M	322 Hörsaal III (149 Sitzpl.) (322/EG/Hörsaal III)	11.10.17 11:00 - 13:00
14816.1120 18S 2SH L Advanced Organic Chemistry (MN-C-A-OC)		Breugst M, Goldfuß B	322 Hörsaal III (149 Sitzpl.) (322/EG/Hörsaal III)	11.04.18 11:00 - 13:00

[5816A-OC] Seminar				1			P		R						
[5816A-OC] Module Examination				1			P	EN	R						
[5816E-OC] Experimental Organic Chemistry			9	9			P	EN	R						
[20152] Physical Chemistry			15	1		W	P	EN	R	0					
[20152] Biochemistry			15	1		W	P	EN	R	0					
[20152] Theoretical Chemistry			15	1		W	P	EN	R	0					
[20152] Project Modules			39	1			P	EN	R	0					
[20152] Supplementary Module			6	0			P		R	0					
[20152] Master Module			30	1			P	EN	R	0					

Click on the T symbol

Then you can register for the type of examination (seminar, lab course) you want to take in the next semester.

Click on the T symbol

Then you can register for the type of lesson. You have to do it for all your modules (lecture, seminar, lab course) you want to study this semester.



Department
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Online Registration for Modules: KLIPS 2.0

Problems with registration in Klips 2.0 for modules or exams?
Please contact the **Examination Office**:

Marion Danitz

marion.danitz@uni-koeln.de

Room HS 118

Tel. +49-221-470-2239

Dr. Heike Henneken

heike.henneken@uni-koeln.de

Room HS 113a

Tel. +49 221 470 1791



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P- and S-modules: Your responsibility!

P- and S-modules request **individual organization by you!**

- see list of possible options and subjects here:

<https://chemie.uni-koeln.de/studium/studieninfos/dokumente-ordnungen>

- get in contact with subject responsables to request details
- For external modules:
 - inform ext. supervisor on module components (lecture, seminar, research lab course)
 - find internal supervisor
- for the S-module, involve your **mentor**

**Registration with examination office (M. Danitz)
at least one week before start!**



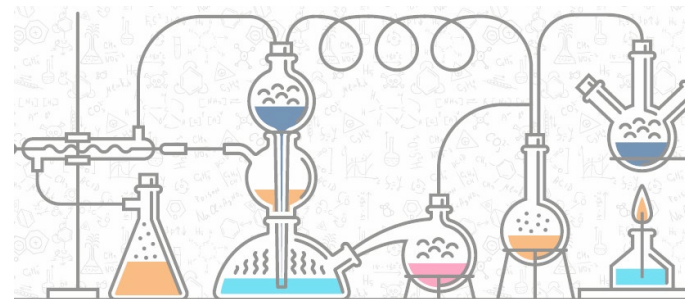
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Project (P) Modules

A: Chemical Project modules

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



B: Non-chemical Project modules

P-Phy	Physics
P-Cry	Cristallography
P-Min	Mineralogy
P-Gen	Genetics
P-Inf	Computer Sciences
P-Pha	Pharmacology und Toxicology
P-PhC	Physiological Chemistry

You can maximum
have
one non-chemical
project module!



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Project Module with Research Proposal (P-RP)

- P-module (lecture, seminar, lab course) + completion & defense of a related research proposal (RP)
- Students who successfully completed this module are able to ...
 - prepare a research proposal for a specific scientific problem,
 - perform an in-depth critical literature search and document it,
 - perform an evaluation of current methods and technologies, a description of possible solutions to the problem together with a literature description and a time schedule for realization of the proposed research project.



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Supplementary (S) Module

Different options:

- one full A-Module (lecture, seminar, exam), or
- one A-lecture & and P-lecture with exam (A or P), or
- up to 3 P-module lectures (1–2 hours/week), or
- external experimental projects (with exam), or,
- internal experimental projects (with exam), or
- any other stuff that is accepted (talk to mentor /examn. office)

more details:

<http://www.chemie.uni-koeln.de/docs.html?&L=1>



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ILIAS e-Learning Platform

<https://www.ilias.uni-koeln.de>

- If subscribed to a course in KLIPS, subscription to the corresponding ILIAS course is automatic.
- Stay patient if content is not online (yet)
- ILIAS provides you with information and material relevant for the running courses.
 - Contact your lecturer if you experience any difficulties in finding your course or signing in.



ILIAS e-Learning Plattform

<https://www.ilias.uni-koeln.de>



 Universität zu Köln

Help Language ▾ Login

E-Learning an der Universität zu Köln

Repository ▾ Support ▾

Repository

Repository

Willkommen auf der E-Learning-Plattform der Universität zu Köln

Alle verfügbaren E-Learning-Angebote finden Sie in den entsprechenden Kategorien des Magazins, das nach den jeweiligen Fakultäten und Fachbereichen geordnet ist. Die Kurse zu Ihren Lehrveranstaltungen finden Sie unter "Veranstaltungen".

CATEGORIES



Veranstaltungen

Alle E-Learning-Kurse geordnet nach Semestern

To access this item you need to be logged in and to have appropriate permissions.



WiSo

eLearning-Angebote der Wirtschafts- und Sozialwissenschaftlichen Fakultät



Rechtswissenschaften

weitere E-Learning-Angebote der Rechtswissenschaftlichen Fakultät



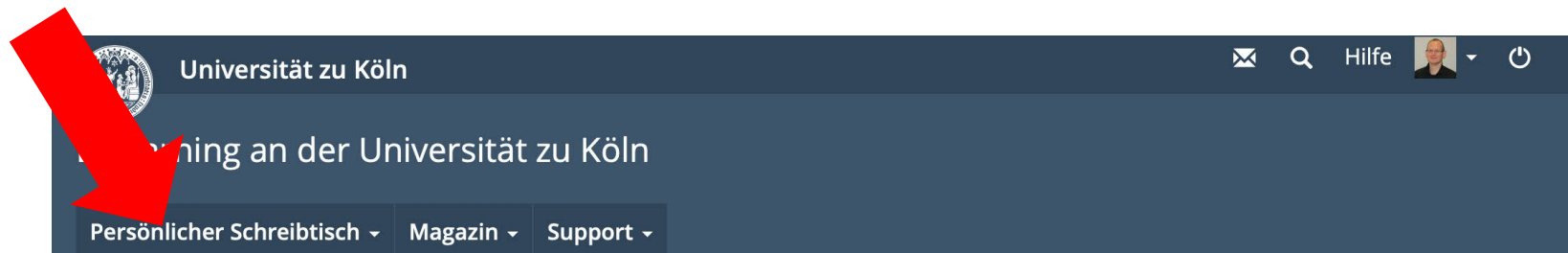
Medizin



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ILIAS e-Learning Plattform



Übersicht

Aktionen ▾

Neuigkeiten - Letzte Woche ⚙

Kurs: [SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C_3Bel]
Es wurden 5 Dateien hinzugefügt.

Forum: Diskussionsforum
12 Beiträge hinzugefügt.



Ausgewählte Angebote ⚙

Department für Chemie



[SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C_3Bel]



[SoSe20] Green Chemistry - Nachhaltigkeit in der Chemie, Studium Integrale [C_3Bel]



[SoSe20] Praktikum zum Wahlpflichtfach Organische Chemie (MN-C-WP-OC)



[SoSe20] Switching Molecules Trough External Triggers (MN-C-P-OC)



[SoSe20] Wahlpflichtfach Organische Chemie (MN-C-WP-OC)



Kalender ⚙

◀ Apr 2020 ▶

Mo	Di	Mi	Do	Fr	Sa	So
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
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[SoSe20] Analytik und Spektroskopie I (MN-C-AS I) [C_3Bel]

Aktionen ▾

Vortragende/r: Schäfer, Mathias Otto Wilhelm; Schlörér, Nils; Giernoth, Ralf Wolfgang

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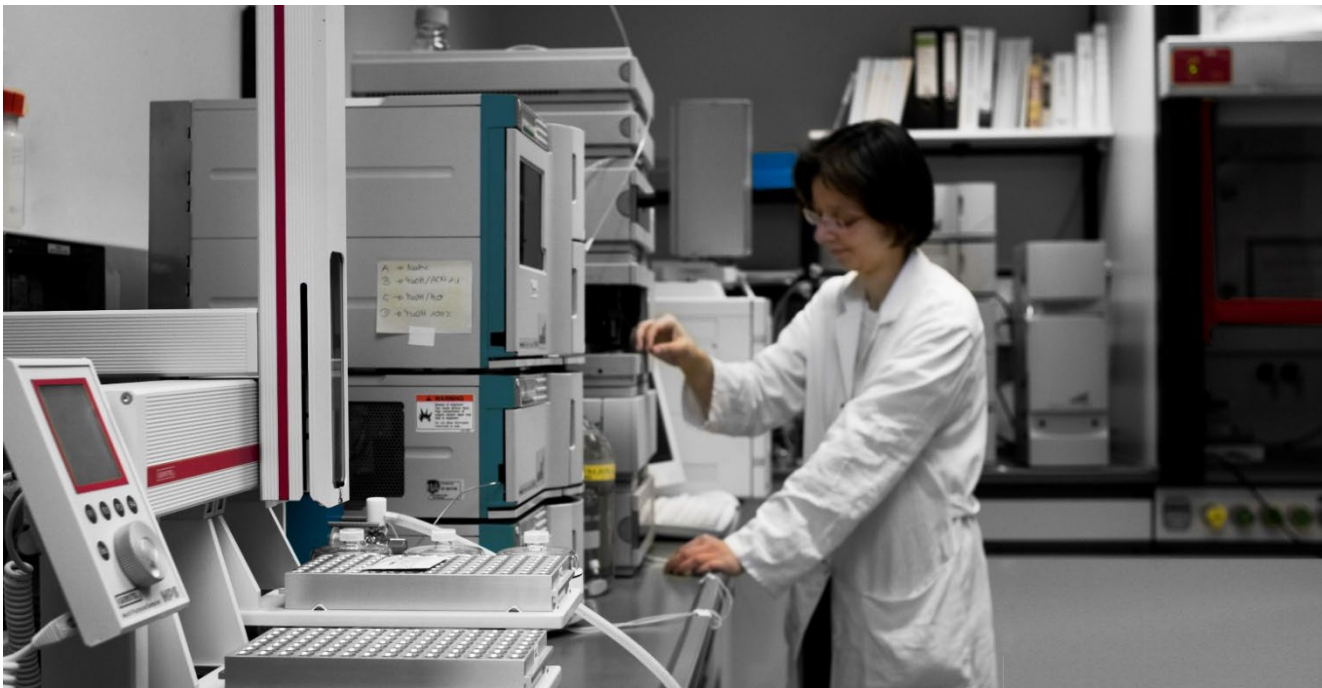
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